

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2005, 16:33:30 ; Search time 3423 Seconds

(without alignments)  
15968.534 Million cell updates/sec

Title: US-10-602-166-2

Perfect score: 1436

Sequence: 1 cattcagaatcatatccagc.....tatcaggtgttcaacctgg 1436

Scoring table: IDENTITY\_NUC

Gapext 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 0

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_htc:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gss1:\*

9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	307.2	21.4	376	9 CL921501	RESULT 1 CL921501/c LOCUS OR_BBa005D24_f OR_Aba005D24_3', genomic survey sequence. DEFINITION OR_Y. 376 bp DNA linear GSS 14-SEP-2004 ACCESSION CL921501 VERSION CL921501.1 GI:5203716 KEYWORDS GSS. SOURCE Oryza australiensis ORGANISM Oryza australiensis Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Birhartoideae; Oryzeae; Oryza. 1 (bases 1 to 376)
C 2	130.8	9.1	612	9 CL835542	REFERENCE AUTHORS Kim H., Yu, Y., Stumm, D., Yost, D., Rao, M., Jetty, R., Kudrna, D., Miller, C., Hatfield, J., Soderlund, C. and Wing, R., OMAP Project TITLE Unpublished (2004) JOURNAL COMMENT Contact: Rod A. Wing Arizona Genomics Institute University of Arizona Forbes Building Room 303, Tucson, AZ 85721-0036, USA Tel: 520 626 9595 Fax: 520 621 1259 Email: <a href="http://genome.arizona.edu">http://genome.arizona.edu</a>
C 3	126	8.8	784	9 CL852571	PCR_PRIMERS
C 4	126	8.8	829	9 CL855333	FORWARD: TAA TAC GAC TCA CTA TAG GG BACKWARD: CAC TCA TTA GGC ACC CCA Plate: 0026 row: D column: 24 Seq primer: CAC TCA TTA GGC ACC CCA Class: BAC ends.
C 5	124	8.6	840	9 CL728092	Location/Qualifiers 1. .376
C 6	123.6	8.6	781	9 CL703664	/organism="Oryza australiensis" /mol_type="genomic DNA" /db_xref="taxon:4532" /clone="OR_Aba005D24" /tissue_type="young leaves" /lab_host="DH10B T1 phage resistant" /clone_lib="OR_Aba" /note="vector: PAGEACI; Site_1: HindIII; Site_2: HindIII"
C 7	119.8	8.3	486	9 CL811645	
C 8	107.8	7.5	665	9 CL708436	
C 9	107.8	7.5	820	9 CL654157	
C 10	107.8	7.5	824	9 CL782578	
C 11	105.2	7.3	784	9 CL746481	
C 12	104.6	7.3	707	9 CL807668	
C 13	104.6	7.3	757	9 CL843536	
C 14	104	7.2	590	9 CL858870	
C 15	100.6	7.0	431	9 CG206879	
C 16	99.6	6.9	651	9 CW508204	
C 17	99	6.9	387	9 A0912524	
C 18	99	6.9	707	9 A045366	
C 19	98.8	6.9	771	9 CL753477	
C 20	98.4	6.9	754	9 CL817465	
C 21	97	6.8	723	9 CL739488	
C 22	94.4	6.6	491	9 CL752715	
C 23	93.4	6.5	365	6 C72467	
C 24	92.2	6.4	561	9 CL752715	

#### ALIGNMENTS

C71788 C71788 Rice  
A0578556 nbcb0093C  
CL790230 OR\_BBa010  
CL749018 OR\_BBa011  
CL612072 OR\_BBa000  
CL629198 OR\_BBa002  
A0840531 nbcb0063P  
A0840531 OR\_BBa005  
C7858275 OR\_BBa008  
C736927 OR\_BBa007  
C1627803 OR\_BBa002  
C753761 OR\_BBa012  
C768364 OR\_BBa014  
C7538474 OR\_BBa005  
AG221983 OR\_Y. sat  
C1853543 OR\_CBa008  
C1838261 OR\_BBa006  
AG21256 OR\_Y. sat  
C1859905 OR\_CBa009  
C1772037 OR\_BBa008  
AB156569 OR\_Y. sat  
AG021430 OR\_Y. sat





RESULT 6

CL783664 554 AAAGCTGGACGCTTGGAGAGCTCTAGGAGAACGCTGCACTTG 613

LOCUS CL783664 768 CTAGAACCTTCCAAACAGGCCCTAG 795

DEFINITION OR\_BBa0100G05.f OR\_BBa Oryza rufipogon genomic clone OR\_BBa0100G05

5', genomic survey sequence.

ACCESSION CL783664

VERSION CL783664.1 GI:50863315

KEYWORDS GSS.

SOURCE Oryza rufipogon

ORGANISM Oryza rufipogon

Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzeae; Oryza.

REFERENCE 1 (bases 1 to 781)

AUTHORS Kim.H., Yu.Y., Stum.D., Yost.D., Rao.K., Luo.M., Jetty.R., Kudrna.D., Muller.C., Hatfield.J., Soderlund.C. and Wing.R.

TITLE OMAp Project

JOURNAL Unpublished (2004)

COMMENT Contact: Rod A. Wing

Arizona Genomics Institute

University of Arizona

Forbes Building Room 303, Tucson, AZ 85721-0036, USA

Tel: 520 626 9595

Fax: 520 621 1259

Email: http://genome.arizona.edu

PCR PRIMERS

FORWARD: TAA TCA GAC TCA CTA TAG GG

BACKWARD: CAC TCA TTA GGC ACC CCA

Insert Length: 161 Std Error: 0.00

Plate: 0100 row: G column: 05

Seq primer: TAA TAC GAC TCA CTA TAG GG

Class: BAC ends

FEATURES

source

1. .781

/organism="Oryza rufipogon"

/mol\_type="genomic DNA"

/db\_xref="taxon:4529"

/clones="OR\_BBa0100G05"

/tissue\_type="young leaves"

/lab\_host="DH10B-T1 phage resistant"

/clone\_lib="OR\_BBa"

/note="Vector: PAGIBAC1; Site\_1: HindIII; Site\_2: HindIII"

ORIGIN

Query Match 8.6%; Score 123.6; DB 9; Length 781;

Best Local Similarity 84.5%; Pred. No. 5.5e-20;

Matches 174; Conservative 0; Mismatches 29; Indels 3; Gaps 3;

Clones 1

Query 589 TTTGGACCTAAATTAGAACAGCCTGCTGAGAGCTGCTGAGAGACTGGAGA 640

Db 436 TTTGGAGCTTAAGATTCTGAAAGCAGCTGCTAAGAGCTAGCTGGTGGAGAAC-CCAG 494

Query 649 AATTGAGCTTCTAGTCATCTCCAGATTCTAACATTACAGATTCTTAATTAGTA 708

Db 495 CTTCTGACTCTTA-GTTTATTCTAGATTCTAACATTCTAGATATAGTA 553

Query 709 AAAGCTGGCTGTTGG-AGCTTCTGCTAGCGGGAGATCTGTGAGAACGCTGAGCTG 767

Db 554 AAAAGCTGGCTTGTGGAGCTTCTAGCAACTCTAGAGATTCTAGGGAGAGCTGAGCTG 613

Query 768 CTAGAACCTTCCAAACAGGCCCT 793

Db 614 CTAGAACCTTCCAAATAGGCCCT 639

CL811645 486 bp DNA linear GSS 09-AUG-2004

LOCUS CL811645

DEFINITION OR\_CBa0027D24\_r OR\_CBa Oryza rufipogon genomic clone OR\_CBa0027D24

3', genomic survey sequence.

ACCESSION CL811645

VERSION CL811645.1 GI:51051839

KEYWORDS GSS.

SOURCE Oryza rufipogon

Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzeae; Oryza.

REFERENCE 1 (bases 1 to 486)

AUTHORS Kim.H., Yu.Y., Wlasiotski,M., Yost,D., Stum.D., Rao.K., Luo.M., Jetty.R., Kudrna.D., Muller.C., Hatfield.J., Soderlund.C. and Wing.R.

TITLE OMAp project

JOURNAL Unpublished (2004)

COMMENT Contact: Rod A. Wing

Arizona Genomics Institute

Forbes Building Room 303, Tucson, AZ 85721-0036, USA

Tel: 520 626 9595

Fax: 520 621 1259

Email: http://genome.arizona.edu

PCR PRIMERS

FORWARD: TAA TAC GAC TCA CTA TAG GG

BACKWARD: CAC TCA TTA GGC ACC CCA

Plate: 0027 row: D column: 24

Seq primer: CAC TCA TTA GGC ACC CCA

Class: BAC ends

Location/Qualifiers

1. .486

/organism="Oryza rufipogon"

/mol\_type="genomic DNA"

/db\_xref="taxon:4529"

/clone="OR\_CBa0027D24"

/tissue\_type="young leaves"

/dev\_stage="2 week old seedlings"

/lab\_host="DH10B-T1 phage resistant"

/clone\_lib="OR\_CBa"

/note="Vector: PAGIBAC1; Site\_1: HindIII; Site\_2: HindIII"

ORIGIN

Query Match 8.3%; Score 119.8; DB 9; Length 486;

Best Local Similarity 72.1%; Pred. No. 4.5e-19;

Matches 191; Conservative 0; Mismatches 57; Indels 17; Gaps 2;

Clones 1

Query 581 GTCGTCTGTTGGACCTAAATTAGAACAGCCTGCTGAGAGCTGGAGA 640

Db 8 GGCCTTTGGGGACTTAAAGATTTGAGAGCAGCTGCTGAGAGCTGGAGA 67

Query 641 ATCTGAGAAATTGA-----GTTCTAGTCATTCTCAGATTCTAACAT 685

Db 68 ATCTGGAGAGCTGGAAACCCAGCTCTGCTGAGCTTCTGAGTCATTCTAAC 127

Query 686 TACAGATCTTAATTAGTGTAAAGCTGCTGAGCTGTTT-GGGAGCTCTGTCAGCG 743

Db 128 TACAGATCTGAGATCTGCTGAGCTGAGCTGGAGCTCTGAGACTGCTGAGCTGG 187

Query 744 AGATCTGAGAGCTGCACTGCTGAGCTTCCAAACAGACCCCTAGTGTACTC 803

Db 188 AGATCTGAGAGCTACAGCTGCTGAGCTCCCAACAGGCCATATGACACT 247

Query 804 TAGCTGAGCTACTCTATTTA 828

Db 248 ACTCTCCTTGGCTGCACTTA 272

RESULT 8

CL708436 665 bp DNA linear GSS 26-JUL-2004

LOCUS CL708436

DEFINITION OR\_BBa0029A21.r OR\_BBa *Oryza rufipogon* genomic clone OR\_BBa0029A21  
 3' genomic survey sequence.

ACCESSION CL708436  
 VERSION CL708436.1 GI:50595474  
 KEYWORDS GSS.

SOURCE *Oryza rufipogon*  
 ORGANISM *Oryza rufipogon*  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; *Oryzae*; *Oryza*.

REFERENCE 1 (bases 1 to 665)  
 1 (bases 1 to 665)  
 Kim, H., Yu, Y., Stum, D., Yost, D., Rao, K., Luo, M., Jetty, R.,  
 Kudrna, D., Muller, C., Hatfield, J., Soderlund, C. and Wing, R.  
 OMAP Project

AUTHORS Kim, H., Yu, Y., Stum, D., Yost, D., Rao, K., Luo, M., Jetty, R., Kudrna, D., Muller, C., Hatfield, J., Soderlund, C. and Wing, R.

TITLE Unpublished (2004)  
 JOURNAL Comment  
 Contact: Rod A. Wing  
 Arizona Genomics Institute  
 University of Arizona  
 Forbes Building Room 303, Tucson, AZ 85721-0036, USA  
 Tel: 520 626 9595  
 Fax: 520 621 1259  
 Email: <http://genome.arizona.edu>

PCR PRIMERS

FORWARD: TAA TAC GAC TCA CTA TAG GG  
 FORWARD: CAC TCA TTA GGC ACC CCA  
 BACKWARD: CAC TCA TTA GGC ACC CCA  
 Insert Length: 161 Std Error: 0.00  
 Plate: 0029 Row: A Column: 21  
 Seq primer: CAC TCA TTA GGC ACC CCA  
 Class: BAC ends.  
 Location/Qualifiers

FEATURES

Source

1. .665  
 /organism="Oryza rufipogon"  
 /mol\_type="genomic DNA"  
 /ab\_xref="Taxon:4529"  
 /clone="OR\_BBa0029A21"  
 /tissue\_type="young leaves"  
 /lab\_host="DH10B T1 phage resistant"  
 /clone\_lib="OR\_CBA"  
 /note="Vector: pAGIBAC1; Site\_1: HindIII; Site\_2: HindIII"

ORIGIN

Query Match 7.5%; Score 107.8; DB 9; Length 665;  
 Best Local Similarity 73.0%; Pred. No. 5.2e-16;  
 Matches 173; Conservative 0; Mismatches 47; Indels 17; Gaps 2;

Qy 580 AGTGTCTTGGAGCTTAATTATGAAAGCAGCTGCTGAGAAAGCTAGCTGGTGGAG 639  
 Db 355 AGCCCTTTAGGGAGTTGAGTCTCTAGACTGCTGAGACTACCTGGAG 393  
 Qy 640 AATCTGAGAATTGAGT-----TCTAGTCTATTCAGATCTACAA 684  
 Db 415 AATCTGAAAGCTGAGAAACCTAGCTCTGGCTCTAGTCTATAA 453  
 Qy 685 TTACAGTTATAATTAGTAAAGCTGACTGTT -GGGAGCTTGAGCG 742  
 Db 454 CTACATTTTCAGAACTAAGTAAATAGCTGACTGTTGGGGAGTTGGCAACTG 513  
 Qy 743 GAGATTCTGAGAAGCTGAGCTGCTAGAAGCTCCCAAACAGACCCCTAGTGT 799  
 Db 535 AAGATTCAGGAGCTCCAGCTGAGCTTAACTCCACCAACAGACCCCTAACGT 534  
 RESULT 9

CL854157

LOCUS CL854157

DEFINITION OR\_CBA0083J07.f OR\_BBa *Oryza rufipogon* genomic clone OR\_CBA0083J07

ACCESSION CL854157

VERSION CL854157.1 GI:51260708

KEYWORDS GSS.

SOURCE *Oryza rufipogon*  
 ORGANISM *Oryza rufipogon*  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; *Oryzae*; *Oryza*.

REFERENCE 1 (bases 1 to 824)  
 1 (bases 1 to 824)  
 Kim, H., Yu, Y., Stum, D., Yost, D., Rao, K., Luo, M., Jetty, R.,  
 Kudrna, D., Muller, C., Hatfield, J., Soderlund, C. and Wing, R.  
 OMAP Project

FEATURES

Source

1. .820  
 /organism="Oryza rufipogon"  
 /mol\_type="genomic DNA"  
 /db\_xref="Taxon:4529"  
 /clone="OR\_CBA0083J07"  
 /tissue\_type="young leaves"  
 /dev\_stages="2 week old seedlings"  
 /lab\_host="DH10B T1 phage resistant"  
 /clone\_lib="OR\_CBA"  
 /note="Vector: pAGIBAC1; Site\_1: HindIII; Site\_2: HindIII"  
 /dark treated 36 hrs before harvest"

ORIGIN

Query Match 7.5%; Score 107.8; DB 9; Length 820;  
 Best Local Similarity 73.0%; Pred. No. 5.4e-16;  
 Matches 173; Conservative 0; Mismatches 47; Indels 17; Gaps 2;

Qy 580 AGTGTCTTGGAGCTTAATTATGAAAGCAGCTGCTGAGAAAGCTAGCTGGTGGAG 639  
 Db 354 AGCCCTTTAGGGAGTTGAGTCTCTAGACTGCTGAGACTACCTGGAG 393  
 Qy 640 AATCTGAGAATTGAGT-----TCTAGTCTATTCAGATCTACAA 684  
 Db 394 AATCTGAAAGCTGAGAAACCTAGCTCTGGCTCTAGTCTATAA 453  
 Qy 685 TTACAGTTATAATTAGTAAAGCTGACTGTT -GGGAGCTTGAGCG 742  
 Db 454 CTACATTTTCAGAACTAAGTAAATAGCTGACTGTTGGGGAGTTGGCAACTG 513  
 Qy 743 GAGATTCTGAGAAGCTGAGCTGCTAGAAGCTCCCAAACAGACCCCTAGTGT 799  
 Db 514 AAGATTCAGGAGCTCCAGCTGAGCTTAACTCCACCAACAGACCCCTAACGT 570  
 RESULT 10

CL782578/C

LOCUS CL782578

DEFINITION OR\_BBa008111.f OR\_BBa *Oryza rufipogon* genomic clone OR\_BBa008111

ACCESSION CL782578

VERSION CL782578.1 GI:50862174

KEYWORDS GSS.

SOURCE *Oryza rufipogon*  
 ORGANISM *Oryza rufipogon*  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; *Oryzae*; *Oryza*.

REFERENCE 1 (bases 1 to 824)  
 1 (bases 1 to 824)  
 Kim, H., Yu, Y., Stum, D., Yost, D., Rao, K., Luo, M., Jetty, R.,  
 Kudrna, D., Muller, C., Hatfield, J., Soderlund, C. and Wing, R.  
 OMAP Project

JOURNAL Unpublished (2004)  
 COMMENT Contact: Rod A. Wing  
 Arizona Genomics Institute  
 University of Arizona  
 Forbes Building Room 303, Tucson, AZ 85721-0036, USA  
 Tel: 520 626 9595  
 Fax: 520 621 1259  
 Email: <http://genome.arizona.edu>

PCR PRIMERS FORWARD: TAA TAC GAC TCA CTA TAG GG  
 BACKWARD: CAC TCA TTA GGC ACC CCA  
 Insert Length: 161 Std Error: 0.00  
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 Class: BAC ends.

FEATURES source  
 Location/Qualifiers  
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 /mol\_type="genomic DNA"  
 /db\_xref="taxon:4529"  
 /clone="OR\_BBa0098P11"  
 /tissue\_type="young leaves"  
 /lab\_host="DHB-TL phage resistant"  
 /clone\_libr="OR\_BBa"  
 /note="Vector: PAGIBAC1; Site\_1: HindIII; Site\_2: HindIII"

ORIGIN  
 Query Match 7.5%; Score 107.8; DB 9; Length 824;  
 Best Local Similarity 73.0%; Pred. No. 5.4e-16;  
 Matches 173; Conservative 0; Mismatches 47; Indels 17; Gaps 2;

QY 589 TTGGGAGCTTAATTATGAAAGCAGCTGTGAGAGCTAGCTGGTGAAGATCGAAG 648  
 Db 517 TGGGGAGCTTAATTCTAGAACAGCTGTGAGAGCTAGCTGGTGAAGATCGAAG 458

QY 649 AATTTGAGTTCTAC-----GTTCAATTCTCCAGATTCTACACATACAGATT 693  
 Db 457 AACCTGGAAACTCAACTCTGGTCTAGTCATTTCGAGATCTACAGATCTACAGATT 398

QY 694 CTATATAATTAGTAAAGCTGAGCTT--GGGAGCTGTGAGCCGAGATCTG 751  
 Db 397 CTCAAGAACTCTGGATAAAAGCTGAGCTGTGGGAGCTCTAGCTACAGATCTACAGATT 338

QY 752 TGAAGAAGCTGCACTGCTAGAACAGCTCCAACAGACCCCTAGTGACTCTAGCT 808  
 Db 337 GGAAGCTGAGCTAGAACGCTCTCCAAATAAGCTGAGCTGTGGTGCAGCT 281

RESULT 11  
 CL746481/C Locus CL746481 784 bp DNA linear GSS 27-JUL-2004  
 DEFINITION OR\_BBa003P11 f OR\_BBa Oryza rufipogon genomic clone OR\_BBa003P11  
 5' genomic survey sequence.

ACCESSION CL746481  
 VERSION CL746481.1  
 KEYWORDS GSS  
 SOURCE GI:50688740  
 ORGANISM Oryza rufipogon

RESULT 12  
 CL807668 Locus CL807668 707 bp DNA linear GSS 09-AUG-2004  
 DEFINITION OR\_CBA002IN19.r OR\_CBA Oryza rufipogon genomic clone OR\_CBA002IN19  
 3' genomic survey sequence.

ACCESSION CL807668  
 VERSION CL807668.1  
 KEYWORDS GSS  
 SOURCE Oryza rufipogon  
 ORGANISM Oryza rufipogon  
 Buxaroidae; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; Oryzeae; Oryza.

REFERENCE 1 (bases 1 to 707)  
 Kim,H., Yu,Y., Wissotski,M., Yost,D., Stum,D., Rao,K., Luo,M.,  
 Jetyl,R., Kudrna,D., Muller,C., Hatfield,J., Soderlund,C. and  
 Wing,R.  
 OMAP project

COMMENT Unpublished (2004)  
 Contact: Rod A. Wing  
 Arizona Genomics Institute  
 University of Arizona  
 Forbes Building Room 303, Tucson, AZ 85721-0036, USA  
 Tel: 520 626 9595  
 Fax: 520 621 1259  
 Email: <http://genome.arizona.edu>

PCR PRIMERS FORWARD: TAA TAC GAC TCA CTA TAG GG  
 BACKWARD: CAC TCA TTA GGC ACC CCA  
 Plate: 0021 row: N column: 19  
 Seq. primer: CAC TCA TTA GGC ACC CCA  
 Class: BAC ends.

FEATURES source  
 Location/Qualifiers  
 1. 784 /organism="Oryza rufipogon"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:4529"  
 /clone="OR\_BBa0083P11"  
 /tissue\_type="young leaves"  
 /lab\_host="DHB-TL phage resistant"  
 /clone\_libr="OR\_BBa"  
 /note="Vector: PAGIBAC1; Site\_1: HindIII; Site\_2: HindIII"

ORIGIN  
 Query Match 7.3%; Score 105.2; DB 9; Length 784;  
 Best Local Similarity 77.9%; Pred. No. 2.4e-15;  
 Matches 159; Conservative 0; Mismatches 28; Indels 17; Gaps 2;

QY 645 GAGAAATTGAA-----GTTCAAGTCATTCTCCAGATTCTACAAATTACA 689  
 Db 204 TGTAGGGAGCTGTAGATCTGAGAGCTGATGAGATCT 145

QY 690 GATTCCTATAATTAGTAAAGCTGAGCTGTT--GGGAGCTGTGAGCCGAGAT 747  
 Db 84 GATTCCTAGAACCTGATAAAAGCTGAGCTGTAAAGAGCTCTGTCAACTGGAGAT 25

QY 748 TCTGTGAGAAGCTGCAGCTGCTAG 771  
 Db 24 TCTAGGAGAAGCTGCAGCTGCTAG 1

RESULT 13  
 CL807668 Locus CL807668 707 bp DNA linear GSS 09-AUG-2004  
 DEFINITION OR\_CBA002IN19.r OR\_CBA Oryza rufipogon genomic clone OR\_CBA002IN19  
 3' genomic survey sequence.

ACCESSION CL807668  
 VERSION CL807668.1  
 KEYWORDS GSS  
 SOURCE Oryza rufipogon  
 ORGANISM Oryza rufipogon  
 Buxaroidae; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Ehrhartoidae; Oryzeae; Oryza.

REFERENCE 1 (bases 1 to 707)  
 Kim,H., Yu,Y., Wissotski,M., Yost,D., Stum,D., Rao,K., Luo,M.,  
 Jetyl,R., Kudrna,D., Muller,C., Hatfield,J., Soderlund,C. and  
 Wing,R.  
 OMAP project

COMMENT Unpublished (2004)  
 Contact: Rod A. Wing  
 Arizona Genomics Institute  
 University of Arizona  
 Forbes Building Room 303, Tucson, AZ 85721-0036, USA  
 Tel: 520 626 9595  
 Fax: 520 621 1259  
 Email: <http://genome.arizona.edu>

FEATURES source  
 Location/Qualifiers



(Arumuganathan and Earle, 1991). The relatively small genome of rice, three times larger than that of *Arabidopsis*, makes it suitable for genomic studies. In order to facilitate positional cloning, physical mapping and genome sequencing of rice, we have constructed a BAC library from *Oryza sativa* Nipponbare variety. The library contains 36,864 clones with an average insert size of 128.5 Kb providing 10.9 haploid genome equivalents. The deep coverage allows the isolation of a particular sequence with a probability of 99.9 %. Two high density filters, each containing 18,432 clones (doubly spotted), represent the whole library for colony screening."

## ORIGIN

Query Match 7.2%; Score 104; DB 8; Length 590;  
Best Local Similarity 76.3%; Pred. No. 4; 6e-15;  
Matches 161; Conservative 0; Mismatches 31; Indels 19; Gaps 2;

Qy 592 GGGAGCTTAAATTATGAAACAGCTGCTGAGAAGCTAGCTGGTGAACATGAGAAT 651  
553 GGGAGCTTAAAGTCTAGAGCAGCTGCTGAGAAGCTAGCTGGTGAACATGAGAAT 500

Qy 652 TTGAGTCTACGTCATCTCCGATTCTACATTAGAGCTTAAATTAGGAAA 711  
499 -----GPTCATTTCTGATCTACACTACAGATCTGAGATCTGATGATAAA 451

Qy 712 AGGTGACTGTTC-GGGAGCTCTGTCAGCCGGAGATTCTTGAGAGCTGAGCTGCT 769  
Db 450 ATCTGACTGTTCGGGAGCTCTGGCAACTGAGATTTAGGAGAGCTGAGCTANT 391

Qy 770 AGAGAGCTCCAAACAGACACCCCTAGTTGTA 800  
Db 390 AAAGCTCCCAAAACAGGCCCTGATTAGGA 360

/clone\_lib="TAMU Rice Japonica Nipponbare BAC Library  
(Hind III)"  
/note="Vector: v41"

## ORIGIN

Query Match 7.0%; Score 100.6; DB 9; Length 421;  
Best Local Similarity 79.1%; Pred. No. 3.1e-14;  
Matches 159; Conservative 0; Mismatches 34; Indels 8; Gaps 3;

Qy 598 TAAATTATGAAACAGCTGCTGAGAAGCTAGCTGGTGAACATGAGAATTTGAGT 657  
Db 1 TAAATTCTGAGAGCAGTGTAGAATCTGAGCTGAGCTGAGCTAGCTT 59

Qy 658 TCTACG-----TCATCTCCAGATTCTACATTAGAGCTTAAATTAGGAAA 712  
Db 60 TTGACTCTTAATTCATTTCTGATCTACACTACAGATCTGAGATCTGAGAAT 119

Qy 713 GCTGGACTGTGTT-GGAGCTCTGTCAGCCGGAGATTCTTGAGAGCTGAGCTGCT 770  
120 GCTGAACCTGTTGGAGGAGCTCTGAGACTGAGATCTTAAATCTGGTAAAGA 179

Qy 771 GAACTTCCAAACAGACCC 791  
Db 180 GAAACACTCTAACGGGCC 200

Search completed: September 23, 2005, 19:20:35  
Job time : 3430 secs

RESULT 15  
CG206879  
LOCUS CG206879 431 bp DNA linear GSS 21-AUG-2003  
DEFINITION TOS501 TAMU Rice Japonica Nipponbare BAC Library (Hind III) *Oryza sativa* (Japonica cultivar-group) genomic clone TOSJNBh024F14h,  
genomic survey sequence.  
ACCESSION CG206879  
VERSION CG206879.1 GI:34097940  
KEYWORDS GSS.  
SOURCE *Oryza sativa* (Japonica cultivar-group)  
ORGANISM *Oryza sativa* (Japonica cultivar-group)  
REFERENCE 1 (bases 1 to 431)  
AUTHORS Li, Y., Wu, C., Santos, T., Uhm, T., Liu, D. and Zhang, H.-B.  
TITLE BAC end sequences to close the gaps of a rice physical map at TAMU  
JOURNAL Unpublished (2003)  
COMMENT Contact: Wu C  
Dapartment of Soil and Crop Sciences and Institute for Plant  
Genomics and Biotechnology  
Texas A & M University  
TAMU 2474, College Station, TX 77843-2474, USA  
Tel: 979 862 4800  
Fax: 979 862 4790  
Email: c-wu@neo.tamu.edu  
Seq primer: M13 Universal Reverse AACAGCTATGACCATG  
Class: BAC ends  
High quality sequence stop: 431.  
FEATURES  
source  
Location/Qualifiers  
1. -31  
/organism="Oryza sativa" (Japonica cultivar-group)"  
/mol\_type="genomic DNA"  
/Cultivar="Nipponbare"  
/ab\_xref="taxon:39957"  
/clone="TOSJNBh024F14h"  
/tissue\_type="leaf"  
/lab\_host="E. coli DH10B"

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using SW model

Run on: September 23, 2005, 17:01:48 ; Search time 714 Seconds

(without alignments) 13447.233 Million cell updates/sec

Title: US-10-602-166-2

Perfect score: 1436

Sequence: 1 cattcagaatcatctccagc.....tatcagtggttcaacctgg 1436

Scoring table: IDENTITY\_NUC

Gapext 1.0

Searched: 7400704 seqs, 3343079526 residues

Total number of hits satisfying chosen parameters: 14801408

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications NA.\*

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3: /cgn2\_6/ptodata/2/pubpna/US05\_PUBCOMB.seq: \*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq: \*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq: \*  
6: /cgn2\_6/ptodata/2/pubpna/PCITS\_PUBCOMB.seq: \*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	1436	100.0	1436	Sequence 2, Appli
2	1436	100.0	1436	Sequence 2, Appli
3	1436	100.0	3003	Sequence 1, Appli
4	1436	100.0	3003	Sequence 1, Appli
5	1196	83.3	1196	Sequence 3, Appli
6	1196	83.3	1196	Sequence 3, Appli
7	240	9	US-09-848-696-10	Sequence 10, Appli

RESULT 1  
US-09-848-696-2  
; Sequence 2, Application US/09848696  
; Sequence 1, Application US/01051713A1  
; Patent No. US2001051713A1  
; GENERAL INFORMATION:  
; APPLICANT: AN, GYN HEUNG  
; APPLICANT: JEON, JONG-SEONG  
; APPLICANT: CHUNG, YONG-YOON  
; APPLICANT: LEE, SI CHUL  
; TITLE OF INVENTION: DNA COMPRISING RICE ANOTHER-SPECIFIC GRN6 AND TRANSGENIC PLANT TR-  
FILE REFERENCE: S-0723A  
; CURRENT APPLICATION NUMBER: US/09/848,696  
; CURRENT FILING DATE: 2001-05-03  
; PRIORITY FILING DATE: 1998-11-03  
; PRIORITY APPLICATION NUMBER: KR 98-50126  
; PRIORITY FILING DATE: 1998-11-19  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn Ver. 2.2  
; SEQ ID NO 2  
; LENGTH: 1436  
; TYPE: DNA  
; ORGANISM: Oryza Sativa  
; US-09-848-696-2  
Query Match 100.0%; Score 1436; DB 9; Length 1436;  
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Index 0; Gaps 0;



Db	341	AAATTGTTATATTTTATGACATACATCGAGTAGCAGTAGAGAATCTAGCTAAGATCG	300
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Db	301	TGTTCGATCACTGAGAACCTCTCGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTG	360
Qy	361	TCGAGATCGGGCTCGTTCTCTGCTGAGTCATCTGCTGCTGCTGCTGCTGCTG	420
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Qy	421	ACGAGAGCAATGCGCTCAGGGAGTTGATCTTGTAGCTACTAGCTACTAGCTACTAG	480
Db	421	ACGAGAGCAATGCGCTCAGGGAGTTGATCTTGTAGCTACTAGCTACTAGCTACTAG	480
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Db	481	TTCGTTCTCATGCGCTCACCGCGTCCAGGGAGTTGATCTTGTAGCTACTAGCTACTAG	540
Qy	541	AAAGATATATCCTACATTTCTTCCTATGCTCTAGCTAGCTAGCTAGCTAGCTAG	600
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Qy	601	AAATTATGAAAGCAGCTGCTGAGAACCTAGTAGCTGCTAGCTGAGAACCTAG	660
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Qy	661	ACGTTCACTCCAGATCTACATACAGTCTTATAATTAGTAAAGCTGACT	720
Db	661	ACGTTCACTCCAGATCTACATACAGTCTTATAATTAGTAAAGCTGACT	720
Qy	721	GTGTTGGAGCTCTGTCAGCCGAGATCTGAGAGCTGAGCTGAGCTGAGCT	780
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Qy	781	CAAACACACCCCTAGTGTACTCTAATGATGATTCACTCTATTATACACCTTC	840
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Qy	840	TCTCTGCTTATCAAGCTAGCTGCAAACTCTGATGATTAAAGCTTAATTGATTGAT	900
Db	841	TCTCTGCTTATCAAGCTAGCTGCAAACTCTGATGATTAAAGCTTAATTGATTGAT	900
Qy	901	TCTTTGCTGCTGATTTACTTACCGCCCTGCGCATTTGAATTAAATTAAATT	960
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Qy	961	TTAGAGCTGATTTGATTTTTCAGGGATTATTTCACGTTAGTAAGTTAAGGTTA	1020
Db	961	TTAGAGCTGATTTGATTTTTCAGGGATTATTTCACGTTAGTAAGTTAAGGTTA	1020
Qy	1021	CCTATTAATTATTAATTTCAGGGATAAGCTTACGGCTTATCTCTGG	1080
Db	1021	CCTATTAATTATTAATTTCAGGGATAAGCTTACGGCTTATCTCTGG	1080
Qy	1081	TATGCTTAATCTCTTACTGACTGACTTAGTTGGACAACTCTCGCA	1140
Db	1081	TATGCTTAATCTCTTACTGACTGACTTAGTTGGACAACTCTCGCA	1140
Qy	1141	TCTCTTATATGGCTCTGCTACTCTCTGATCTGATCTGACACAGAACCTAGCTGCAA	1200
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Qy	1201	AGTCCTCAAGGCAACGCCCTCATCTCTCTCCATGCGCTCCATGCGCTCC	1260
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Qy	1261	CGGCAATGCCATGGCTCATGGCTCAGGAGATATCCAGCTGCGCAA	1320
Db	1261	CGGCAATGCCATGGCTCAGGAGATATCCAGCTGCGCAA	1320
Qy	1321	TGACGCGATATCTCTCATCACTTCAGCTCTGGATTGCGACAGCTT	1380
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Qy	1381	GCTGATCAGTAACGTTGCGCTGTAATGCTCTTATCAGGGTTCACCTCG	1436
Db	1381	GCTGATCAGTAACGTTGCGCTGTAATGCTCTTATCAGGGTTCACCTCG	1436

CURRENT APPLICATION NUMBER: US/10/602,166  
 CURRENT FILING DATE: 2003-05-24  
 PRIOR APPLICATION NUMBER: US/09/848,696  
 PRIOR FILING DATE: 2001-05-03  
 PRIOR APPLICATION NUMBER: KR 98-46973  
 PRIOR FILING DATE: 1998-11-03  
 PRIOR APPLICATION NUMBER: KR 98-50126  
 PRIOR FILING DATE: 1998-11-19  
 NUMBER OF SEQ ID NOS: 10  
 SOFTWARE: PatentIn Ver. 2.2  
 SEQ ID NO: 1  
 LENGTH: 3003  
 TYPE: DNA  
 ORGANISM: *Oryza sativa*  
 US-10-602-166-1  
 Query Match 100.0%; Score 1436; DB 18; Length 3003;  
 Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
 Matches 1436; Conservative 0;  
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 841 TCTCTAGCTTACGAACTACGAGCTAGTGAATTAAAGCTTAATGATTTGAGCT 900  
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 901 TCTTTCTATGTAATCTACTTACCGACCTAGTGGCATTTAAGATTTAAATTT 960  
 901 TCTTTCTATGTAATCTACTTACCGACCTAGTGGCATTTAAGATTTAAATTT 960  
 961 TTAGAGCTGATTTGATTTTTACGGAAATTATTTACGGATACTTACGGATTTAAGTTA 1020  
 961 TTAGAGCTGATTTGATTTTTACGGAAATTATTTACGGATACTTACGGATTTAAGTTA 1020  
 1021 CCTTATTAATTTTACGGAGTAACTTACGGATTTACGGTTATACTATCTCG 1080  
 1021 CCTTATTAATTTTACGGAGTAACTTACGGATTTACGGTTATACTATCTCG 1080  
 1081 TATCCTTAATCTTACTTACGGACTTACGGATTTACGGAAATTCTGATAATGCACTCG 1140  
 1081 TATCCTTAATCTTACTTACGGACTTACGGATTTACGGAAATTCTGATAATGCACTCG 1140  
 1141 TCTCTATAATACGGCTGCTAGCTTGCTCTGTTACGGACACAGACTGCGAA 1200  
 1141 TCTCTATAATACGGCTGCTAGCTTGCTCTGTTACGGACACAGACTGCGAA 1200  
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 1201 AGTCTCAAGGGACCCCTCCATCTCTCCCACTCTCCCATGGCTCCCTGT 1260  
 1201 AGTCTCAAGGGACCCCTCCATCTCTCCCACTCTCCCATGGCTCCCTGT 1260  
 1261 CGCCATCGCCTGCACTGGCTCTGATGGCTGAGATACTCCGCACTCTGAATTACT 1320  
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 1321 TGACGCAATCATCTCATCATCTGGCATTTCACTTGATGGCTGAGACATGTTA 1380  
 1321 TGACGCAATCATCTCATCATCTGGCATTTCACTTGATGGCTGAGACATGTTA 1380  
 1381 GCTGATCAGTAAACGTTACGGCTGTAATGCTGCTTACAGTGTCAACCTGG 1436  
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 RESULT 4  
 US-10-602-166-1  
 ; Sequence 1, Application US/10602166  
 ; Publication No. US20040060084A1  
 ; GENERAL INFORMATION:  
 ; ; APPLICANT: JEON, JONG-SRONG  
 ; ; APPLICANT: CRUNG, YONG-YOON  
 ; ; APPLICANT: LEE, SI CHUL  
 ; ; TITLE OF INVENTION: DNA COMPRISING RICE ANTER-SPECIFIC GENE AND TRANSGENIC PLANT TRA  
 ; ; TITLE OF INVENTION: THEREWITH  
 ; ; FILE REFERENCE: IS-0723A

Page 5

US-09-848-696-3  
Sequence 3, Application US/09848696  
Patent No. US20010051713A1  
GENERAL INFORMATION:  
APPLICANT: AN, GYN HEUNG  
APPLICANT: JEON, JONG-SEONG  
APPLICANT: CHUNG, YONG-YOON  
APPLICANT: LEE, SI CRUL  
TITLE OF INVENTION: DNA COMPRISING RICE ANTER-SPECIFIC GENE AND TRANSGENIC  
TITLE OF INVENTION: THEREWITH  
FILE REFERENCE: S-30723A  
CURRENT APPLICATION NUMBER: US/09/848,696  
CURRENT FILING DATE: 2001-05-03  
PRIOR APPLICATION NUMBER: KR 98-46973  
PRIOR FILING DATE: 1998-11-03  
PRIOR APPLICATION NUMBER: KR 98-50125  
PRIOR FILING DATE: 1998-11-19  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn Ver. 2.2  
SEQ ID NO 3  
LENGTH: 1196  
TYPE: DNA  
ORGANISM: *Oryza sativa*  
US-09-848-696-3

Query Match Similarity 83.3%; Score 1196; DB 9; Length 1196;  
 Best Local Similarity 100.0%; Pred. No. 5e-281;  
 Matches 1196; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1081 TATCCTTAACTCTTACTTGACTTGTGGACAACTCGTAAATGCAATTGATCTCGTGTCCA 1140  
 Db 1081 TATGCTTAAATCTCTTACTTGACTTGTGGACAACTCGTAAATGCAATTGATCTCGTGTCCA 1140  
 Qy 1141 TCTCTTAAATACGGCCTGCTAGCTTGTGCTCTGATCTGCAACAGAACTAGCTG 1195  
 Db 1141 TCTCTTAAATACGGCCTGCTAGCTTGTGCTCTGATCTGCAACAGAACTAGCTG 1195

RESULT 6  
 US-10-602-166-3 Application US/10502166  
 ; Sequence 3, Application US/10502166  
 ; Publication No. US200400600841  
 ; GENERAL INFORMATION:  
 ; APPLICANT: AN, GYN HEUNG  
 ; APPLICANT: JEON, JONG-SEONG  
 ; APPLICANT: CHUNG, YONG-YOON  
 ; APPLICANT: LEE, SI CHUL  
 ; TITLE OF INVENTION: DNA COMPRISING RICE ANTER-SPECIFIC GENE AND TRANSGENIC PLANT TRA  
 ; TITLE OF INVENTION: THEREWITH  
 ; FILE REFERENCE: S-0723A  
 ; CURRENT APPLICATION NUMBER: US/10/602,166  
 ; CURRENT FILING DATE: 2003-06-24  
 ; PRIOR APPLICATION NUMBER: US/09/848,696  
 ; PRIOR FILING DATE: 2001-05-03  
 ; PRIOR APPLICATION NUMBER: KR 98-46973  
 ; PRIOR FILING DATE: 1998-11-03  
 ; PRIOR APPLICATION NUMBER: KR 98-50126  
 ; PRIOR FILING DATE: 1998-11-19  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: PatentIn Ver. 2.2  
 ; SEQ ID NO 3  
 ; LENGTH: 1196  
 ; TYPE: DNA  
 ; ORGANISM: Oryza sativa  
 ; US-10-602-166-3

Query Match 83.3%; Score 1196; DB 18; Length 1196;  
 Best Local Similarity 100.0%; Pred. No. 5e-281; Mismatches 0; Indels 0; Gaps 0;  
 Matches 1196; Conservative 0; Pairs 0; Gaps 0;

Qy 1 CATTCTGAGATCATCTCCAGCTTACATGATCTCTCTCCATATAACAGTGCTCTATGA 60  
 Db 1 CATTCTGAGATCATCTCCAGCTTACATGATCTCTCTCCATATAACAGTGCTCTATGA 60  
 Qy 61 TCTCTTAAATCTCTTACTTGACTTGTGGACAACTCGTAAATGCAATTGATCTCG 120  
 Db 61 TCTCTTAAATCTCTTACTTGACTTGTGGACAACTCGTAAATGCAATTGATCTCG 120

Db 61 TTCAAAATTGTCTTACATATAACATTCGCTGAAATCCATACATTAATTTCAG 960  
 Db 961 TTAGAGCTGATTTGATTTTTCAGCGGAAATTATTCACGTTGAAAGTTTA 1020  
 Db 961 TTAGAGCTGATTTGATTTTTCAGCGGAAATTATTCACGTTGAAAGTTTA 960

Qy 1021 CCTTAAATTAAATTTCAGCGGAAATTATTCACGTTGAAATTATTCACGTTG 1080  
 Db 1021 CCTTAAATTAAATTTCAGCGGAAATTATTCACGTTGAAATTATTCACGTTG 1080

Qy 1081 TATGCTTAAATCTCTTACTTGACTTGTGGACAACTCGTAAATGCAATTGCA 1140  
 Db 1081 TATGCTTAAATCTCTTACTTGACTTGTGGACAACTCGTAAATGCAATTGCA 1140  
 Qy 1141 TCTCTTAAATACGGCCTGCTAGCTTGTGCTCTGATCTGCAACAGAACTAGCTG 1195  
 Db 1141 TCTCTTAAATACGGCCTGCTAGCTTGTGCTCTGATCTGCAACAGAACTAGCTG 1195

RESULT 7  
 US-09-848-696-10  
 ; Sequence 10, Application US/09848696  
 ; Patent No. US20010051713A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: AN, GYN HEUNG  
 ; APPLICANT: JEON, JONG-SEONG  
 ; APPLICANT: CHUNG, YONG-YOON  
 ; APPLICANT: LEE, SI CHUL  
 ; TITLE OF INVENTION: DNA COMPRISING RICE ANTER-SPECIFIC GENE AND TRANSGENIC PLANT TRA  
 ; TITLE OF INVENTION: THEREWITH  
 ; FILE REFERENCE: S-30723A  
 ; CURRENT APPLICATION NUMBER: US/09/848,696  
 ; CURRENT FILING DATE: 2001-05-03  
 ; PRIOR APPLICATION NUMBER: KR 98-46973  
 ; PRIOR FILING DATE: 1998-11-03  
 ; PRIOR APPLICATION NUMBER: KR 98-50126  
 ; PRIOR FILING DATE: 1998-11-19  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: PatentIn Ver. 2.2  
 ; SEQ ID NO 10  
 ; LENGTH: 240  
 ; TYPE: DNA  
 ; ORGANISM: Oryza sativa

US-09-848-696-10

US-10-437-963-87679

; Sequence 87679, Application US/10437963

; Publication No. US20040123343A1

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TYPR: DNA  
; ORGANISM: *Oryza sativa*  
; US-09-848-696-7

Query Match 6.6%; Score 95; DB 9; Length 1008;  
Best Local Similarity 100.0%; Pred. No. 1.7e-12;  
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1197 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCAGCTCTCCATGGTCC 1256  
Db 1 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCATGGTCC 60

Qy 1257 TCGTGGCATCGCATCGCCATCGCTCTCATGGT 1291  
Db 61 TCGTGGCATCGCCATCGCTCTCATGGT 95

RESULT 11  
US-10-602-166-7  
Sequence 7, Application US/10602166  
Publication No. US20040050084A1  
GENERAL INFORMATION:  
APPLICANT: AN, GYN HETUNG  
APPLICANT: JEBON, JONG-SBONG  
APPLICANT: CHUNG, YONG-YOON  
APPLICANT: LEE, SI CHUL  
TITLE OF INVENTION: DNA COMPRISING RICE ANTER-SPECIFIC GENE AND TRANSGENIC PLANT TRA  
TITLE OF INVENTION: THEREWITH  
FILE REFERENCE: S-30723A  
CURRENT APPLICATION NUMBER: US/10/602,166  
CURRENT FILING DATE: 2003-05-24  
PRIORITY APPLICATION NUMBER: US/09/848,696  
PRIORITY FILING DATE: 2001-05-03  
PRIORITY APPLICATION NUMBER: KR 98-46973  
PRIORITY FILING DATE: 1998-11-03  
PRIORITY APPLICATION NUMBER: KR 98-50126  
PRIORITY FILING DATE: 1998-11-19  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn Ver. 2.2  
SEQ ID NO 7  
LENGTH: 1008  
TYPE: DNA  
; ORGANISM: *Oryza sativa*  
; US-10-602-166-7

Query Match 6.6%; Score 95; DB 18; Length 1008;  
Best Local Similarity 100.0%; Pred. No. 1.7e-12;  
Matches 95; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1197 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCAGCTCTCCATGGTCC 1256  
Db 1 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCATGGTCC 60

Qy 1257 TCGTGGCATCGCATCGCCATCGCTCTCATGGT 1291  
Db 61 TCGTGGCATCGCCATCGCTCTCATGGT 95

RESULT 12  
US-10-425-114-30221  
Sequence 30221, Application US/10425114  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114

Query Match 6.5%; Score 93.4; DB 19; Length 1250;  
Best Local Similarity 98.9%; Pred. No. 4.7e-12;  
Matches 94; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1197 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCAGCTCTCCATGGTCC 1256  
Db 13 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCAGCTCTCCATGGTCC 72

Qy 1257 TCGTGGCATCGCCATCGCTCTCATGGT 1291  
Db 73 TCGTGGCATCGCCATCGCTCTCATGGT 107

RESULT 13  
US-10-437-963-72585  
Sequence 72585, Application US/10437963  
Publication No. US20040123343A1  
GENERAL INFORMATION:  
APPLICANT: La Rose, Thomas J.  
APPLICANT: Kovacic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
APPLICANT: Wu, Wei  
APPLICANT: Boukharov, Andrei A.  
APPLICANT: Barbuza, Brad  
APPLICANT: Li, Ping  
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53221)B  
CURRENT APPLICATION NUMBER: US/10/437,963  
CURRENT FILING DATE: 2003-05-14  
NUMBER OF SEQ ID NOS: 204966  
SEQ ID NO 72585  
LENGTH: 1250  
TYPE: DNA  
; ORGANISM: *Oryza sativa*  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)..(1250)  
OTHER INFORMATION: unsure at all n locations  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT4530\_72950C.1  
; US-10-437-963-72585

Query Match 6.5%; Score 93.4; DB 19; Length 1250;  
Best Local Similarity 98.9%; Pred. No. 4.7e-12;  
Matches 94; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1197 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCAGCTCTCCATGGTCC 1256  
Db 13 GCAAAAGTCCTCAAGGGAAACGGCCTCCATCTCTCCAGCTCTCCATGGTCC 72

Qy 1257 TCGTGGCATCGCCATCGCTCTCATGGT 1291  
Db 73 TCGTGGCATCGCCATCGCTCTCATGGT 107

RESULT 14  
US-10-260-238-2616  
Sequence 2616, Application US/10260238  
Publication No. US2004016025A1  
GENERAL INFORMATION:  
APPLICANT: Budworth, Paul R.

APPLICANT: Moughamer, Todd G.  
 APPLICANT: Briggs, Steven P.  
 APPLICANT: Cooper, Bret  
 APPLICANT: Glazebrook, Jane  
 APPLICANT: Goff, Stephen A.  
 APPLICANT: Katigiri, Fumi Yaki  
 APPLICANT: Krebs, Joel  
 APPLICANT: Provar, Nicholas  
 APPLICANT: Riche, Darrell  
 APPLICANT: Zhu, Tong

TITLE OF INVENTION: PROMOTERS FOR REGULATION OF PLANT EXPRESSION  
 FILE REFERENCE: 60111-NP  
 CURRENT APPLICATION NUMBER: US/10/260, 238  
 CURRENT FILING DATE: 2002-09-26  
 PRIOR APPLICATION NUMBER: US 60/325, 448  
 PRIOR FILING DATE: 2001-03-26  
 PRIOR APPLICATION NUMBER: US 60/325, 277  
 PRIOR FILING DATE: 2001-03-26  
 PRIOR APPLICATION NUMBER: US 60/370, 620  
 PRIOR FILING DATE: 2002-04-04  
 NUMBER OF SEQ ID NOS: 6077  
 SEQ ID NO: 2016  
 LENGTH: 2000  
 TYPE: DNA  
 ORGANISM: Oryza sativa  
 FEATURE:  
 NAME/KEY: N region  
 LOCATION: (1496)..(1496)  
 OTHER INFORMATION: n = any nucleotide  
 US-10-260-238-2616

Query Match 6.3%; Score 90.4; DB 17; Length 2000;  
 Best Local Similarity 71.1%; Pred. No. 3.3e-11; Indels 17; Gaps 2;  
 Matches 155; Conservative 0; Mismatches 46; Indels 17; Gaps 2;

Qy 593 GGAGCTTAATTAATGAAAGCAGCTGGCGAGAGCTACGGAGAGCTGGAGAGCTGGAGATCTGAGA 648  
 Db 17088 TTGGGGAGCTTAAGATCTGAGAGTAGCTGGTGGAGCTGCTTGATATCTGAA 17147  
 Qy 649 AATTGAGTCTACGTGTCATTCTCAGATCTACATACAGATCTTATAATTAGCTA 708  
 Db 17148 AACITGGTT---TCACTCTGCTCTTCACTACAGATCTTCTGAGCTG 17203  
 Qy 709 AAAGCTGACTGTTGGAGCTCTGCAGCGGAGATTCTGAGAAGCTGCACTG 768  
 Db 17204 AGATGTAGACTTATTCAGG-----AGCTGAAATTCTAAACAACTGCAAAATAC 17254  
 Qy 769 TAGAGCTCCCAAAGGACCTA 796  
 Db 17255 TAGAGCTCACTCAAACAGGGCTTAGT 17282

Search completed: September 23, 2005, 19:36:05  
 Job time : 720 sec

RESULT 15  
 US-10-415-058-4  
 Sequence 4, Application US/10415-058  
 Publication No. US20040060081A1  
 GENERAL INFORMATION:  
 APPLICANT: Wisconsin Alumni Research Foundation  
 APPLICANT: United States Department Of Agriculture  
 APPLICANT: Leong, Sally A.  
 APPLICANT: Farman, Mark L.  
 APPLICANT: Chauhan, Rajinder  
 APPLICANT: Durfee, Timothy J.  
 TITLE OF INVENTION: Plant Gene That Confers Resistance To Strains Of Magnaporthe Grisea  
 FILE REFERENCE: Warf/045  
 CURRENT APPLICATION NUMBER: US/10/415, 058  
 CURRENT FILING DATE: 2003-04-11  
 PRIOR APPLICATION NUMBER: USSN 60/242, 313  
 PRIOR FILING DATE: 2000-10-20  
 PRIOR FILING DATE: 2001-07-09  
 NUMBER OF SEQ ID NOS: 14

SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 4  
 ; LENGTH: 17953  
 ; TYPE: DNA  
 ; ORGANISM: Oryza sativa  
 US-10-415-058-4

Query Match 5.4%; Score 77.2; DB 18; Length 17953;  
 Best Local Similarity 68.3%; Pred. No. 1.8e-07; Indels 53; Mismatches 53; Gaps 2;  
 Matches 142; Conservative 0; Mismatches 53; Indels 13; Gaps 2;

Qy 589 TTGGGGAGCTTAAGATCTGAGAGTAGCTGGTGGAGCTGCTTGATATCTGAA 648  
 Db 17088 TTGGGGAGCTTAAGATCTGAGAGTAGCTGGTGGAGCTGCTTGATATCTGAA 17147  
 Qy 649 AATTGAGTCTACGTGTCATTCTCAGATCTACATACAGATCTTATAATTAGCTA 708  
 Db 17148 AACITGGTT---TCACTCTGCTCTTCACTACAGATCTTCTGAGCTG 17203  
 Qy 709 AAAGCTGACTGTTGGAGCTCTGCAGCGGAGATTCTGAGAAGCTGCACTG 768  
 Db 17204 AGATGTAGACTTATTCAGG-----AGCTGAAATTCTAAACAACTGCAAAATAC 17254

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Copyright (C) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 23, 2005, 16:39:48 ; Search time 197 Seconds

Sequence: 1 cattcagaatccatccacgccccccatccatccacg 1436

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*

2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*

3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/PCITS\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46.2	3.2	7218	1	US-08-232-462-14
2	46.8	3.1	13158	2	Sequence 14, Appl
3	44.6	3.1	832	4	Sequence 05, ADP
4	43.6	3.0	1664976	4	Sequence 2813, ADP
5	43.6	3.0	1664976	4	Sequence 1, Appl
6	43.4	3.0	1039	4	Sequence 1, Appl
7	42.4	3.0	612	4	Sequence 1280, ADP
8	42.4	3.0	740	3	Sequence 1357, ADP
9	41.8	2.9	570	4	Sequence 563, ADP
10	41.8	2.9	2748	4	Sequence 1972, ADP
11	41.8	3.0	6154	4	Sequence 1448, ADP
12	40.6	2.8	601	4	Sequence 13190, ADP
13	40.4	2.8	6243	2	Sequence 202462, ADP
14	40.4	2.8	21239	4	Sequence 1, ADP
15	40.4	2.8	601	4	Sequence 16065, ADP
16	40	2.8	19124	2	Sequence 87645, ADP
17	40	2.8	670589	4	Sequence 13, ADP
18	40	2.8	670590	4	Sequence 12505, ADP
19	39.8	2.8	897	4	Sequence 14207, ADP
20	39.8	2.8	897	4	Sequence 3490, ADP
21	39.6	2.8	601	4	Sequence 18772, ADP
22	39.6	2.8	19124	2	Sequence 122354, ADP
23	39.6	2.8	949	16	Sequence 116395, ADP
24	39.6	2.8	45842	4	Sequence 10-16-122550, ADP
25	39.6	2.8	45842	4	Sequence 10-16-17227, ADP
26	39.6	2.8	74730	4	Sequence 15189, ADP
27	39.4	2.7	601	4	Sequence 91213, ADP

ALIGNMENTS

RESULT 1

US-08-232-463-14

Sequence 14, Application US/08232463

Patent No. 5670367

GENERAL INFORMATION:

APPLICANT: DORNER, F.

APPLICANT: SCHIFFLINGER, F.

APPLICANT: FALKNER, P. G.

TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS

NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:

ADDRESSEES: Foley & Lardner

STREET: 1800 Diagonal Road, Suite 500

CITY: Alexandria

STATE: VA

COUNTRY: USA

ZIP: 22313-0399

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300.6

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29, 768

REFERENCE/DOCKET NUMBER: 30472/114 INMU

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 836-9300

TELEFAX: (703) 683-4109

TELEX: 899149

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 7218 base pairs

TYPE: nucleic acid

STRANDBENESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

CLOSE: PTZGPT-F18

US-08-232-463-14

Query Match 3.2%; Score 46.2; DB 1; Length 7218;











CORRESPONDENCE ADDRESS:  
 ADDRESSEE: NC, 6239254artis Corporation  
 STREET: 3054 Cornwallis Road  
 CITY: Research Triangle Park  
 STATE: No. 6239264th Carolina  
 COUNTRY: USA  
 ZIP: 27709

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/998,416  
 FILING DATE: 24-DEC-1997  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: CH 0016/97  
 FILING DATE: 31-DEC-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Meligs, J. Timothy  
 REGISTRATION NUMBER: 38,241  
 REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 919-541-8587  
 TELEFAX: 919-541-8689

SEQUENCE CHARACTERISTICS:  
 LENGTH: 740 base Pairs  
 STRANDEDNESS: single

MOLECULE TYPE: DNA (genomic)  
 ORIGINAL SOURCE: ORGANISM: PAC1390RP  
 SEQ ID NO: 563

Query Match 3.0%; Score 42.4; DB 3; Length 740;  
 Best Local Similarity 49.1%; Pred. No. 0.11; Mismatches 67; Conservatve 0; Indels 0; Gaps 0;  
 Matches 112; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

Qy 814 ATTCACCTTATTATACACCTTGCTCTAGCTTACAAACGTTGCCAGACTGAA 873  
 Db 106 ATTTATATGATTTGTCAGATTTGTCAGTTACATGTTATGTTAAATAATTAA 165  
 Qy 874 TTAAAGCTTAAATGTTGATGTTGCTTTCACTGAAATTCACTACCGACCTTGT 933  
 Db 166 TATTATTTTATAATTATTATTCTAGTCAGACTCATATAATGAATTTAT 225  
 Qy 934 CGCATTTGAAATTAAATTAATTAGCTGTTGATTTCAGGGAA 993  
 Db 226 TCCATTATAATGTTAGATAACATAATTAAATTAACCTTAAATTCA 285  
 Qy 994 TTATTCACGTTGAAAGTTACCTAAATTAAATTCA 1041  
 Db 286 TAAATGTTCATATTATGTTACAACTGTTACGGATTGGATATAA 333

RESULT 9  
 Sequence 1972, Application US/09621976  
 Patent No. 6639063  
 GENERAL INFORMATION:  
 APPLICANT: Dumas Mine Edwards, J. B.  
 APPLICANT: Giordano, J. Y.  
 APPLICANT: Joberi, S.  
 APPLICANT: Sequence 1972, Application US/09621976  
 FILE REFERER: GENSET 054PP2  
 CURRENT APPLICATION NUMBER: US/09/621,976  
 CURRENT FILING DATE: 2000-07-21  
 NUMBER OF SEQ ID NOS: 19335  
 SOFTWARE: Patent-1m  
 SEQ ID NO: 1972

Query Match 2.9%; Score 41.8; DB 4; Length 570;  
 Best Local Similarity 61.5%; Pred. No. 0.14; Mismatches 67; Conservatve 0; Indels 0; Gaps 0;  
 Matches 67; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

Qy 940 TTGAATTAAATAATTATGTTAGCTGATTGATTTTCAGGGATTATT 999  
 Db 2582 TTGAATTAAATAATTATGTTAGCTGATTGATTTACCGCTTGTACA 2641

RESULT 10  
 Sequence 13190, Application US/09942016  
 Patent No. 6812339  
 GENERAL INFORMATION:  
 APPLICANT: Venter, J. Craig et al.  
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 PRIORITY FILING DATE: 2000-10-03  
 PRIORITY APPLICATION NUMBER: US/09/949,016  
 CURRENT FILING DATE: 2000-04-14  
 PRIORITY APPLICATION NUMBER: 60/241,755  
 PRIORITY FILING DATE: 2000-10-20  
 PRIORITY APPLICATION NUMBER: 60/237,768  
 PRIORITY FILING DATE: 2000-10-03  
 PRIORITY APPLICATION NUMBER: 60/231,498  
 PRIORITY FILING DATE: 2000-09-08  
 NUMBER OF SEQ ID NOS: 207012  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO: 1448  
 LENGTH: 2748  
 TYPE: DNA  
 ORGANISM: Human  
 SEQ ID NO: 1448

Query Match 2.9%; Score 41.8; DB 4; Length 2748;  
 Best Local Similarity 61.5%; Pred. No. 0.34; Mismatches 67; Conservatve 0; Mismatches 42; Indels 0; Gaps 0;

Qy 940 TTGAATTAAATAATTATGTTAGCTGATTGATTTTCAGGGATTATT 999  
 Db 2582 TTGAATTAAATAATTATGTTAGCTGATTGATTTACCGCTTGTACA 2641

RESULT 11  
 Sequence 13190, Application US/09942016  
 Patent No. 6812339  
 GENERAL INFORMATION:  
 APPLICANT: Venter, J. Craig et al.  
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
 PRIORITY FILING DATE: 2000-04-14  
 PRIORITY APPLICATION NUMBER: US/09/949,016  
 CURRENT FILING DATE: 2000-07-21  
 NUMBER OF SEQ ID NOS: 19335  
 SOFTWARE: Patent-1m  
 SEQ ID NO: 1972

Query Match 2.9%; Score 41.8; DB 4; Length 570;  
 Best Local Similarity 61.5%; Pred. No. 0.14; Mismatches 67; Conservatve 0; Indels 0; Gaps 0;  
 Matches 67; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

Qy 1000 TTACCTATGTTAAAGTTACCTAAATTATATTCACTGCGGAGT 1048  
 Db 2642 GACCCAAATGTTAAATTAAATTAAATTGCAATTCTACAGAA 2690





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Baum 5  
10/602166 Page 1  
Seq. 1D2

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using SW model

Run on: September 23, 2005, 14:46:25 ; Search time 4312 Seconds

(without alignments) 16136.756 Million cell updates/sec

Title: US-10-602-166-2

Perfect score: 1436

Sequence: 1 cattcggaaatcatctccagg.....tatcagggtttcaactgg 1436

Scoring table: IDENTITY\_NUC

Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb ov:\*

6: gb pat:\*

7: gb ph:\*

8: gb pl:\*

9: gb pr:\*

10: gb ro:\*

11: gb sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242729	ACCESSION
6	1079	8	2757	8 AF042275	VERSION
7	240	16.7	240	6 BD242735	KEYWORDS
8	184.6	12.9	598	8 AK102940	SOURCE
9	9	6	127952	8 OSJN0063	ORGANISM
10	137.8	9.6	156002	8 OSJN0050	Oryza sativa
11	127.4	8.9	126544	8 AP005106	Homolog
12	126	8.8	156649	8 AC14738	Homolog
13	121.6	8.5	95209	2 AP004323	Homolog
14	121.6	8.5	187273	8 AP005966	Homolog
15	120	8.4	134159	2 AP003625	Homolog
16	120	8.4	168253	AP003686	Homolog
17	118.8	8.3	139421	8 AC087545	Homolog
18	118.8	8.3	30029	8 AC017097	Homolog
19	118	8.2	158742	8 AC099042	Homolog

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb ov:\*

6: gb pat:\*

7: gb ph:\*

8: gb pl:\*

9: gb pr:\*

10: gb ro:\*

11: gb sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242729	ACCESSION
6	1079	8	2757	8 AF042275	VERSION
7	240	16.7	240	6 BD242735	KEYWORDS
8	184.6	12.9	598	8 AK102940	SOURCE
9	9	6	127952	8 OSJN0063	ORGANISM
10	137.8	9.6	156002	8 OSJN0050	Oryza sativa
11	127.4	8.9	126544	8 AP005106	Homolog
12	126	8.8	156649	8 AC14738	Homolog
13	121.6	8.5	95209	2 AP004323	Homolog
14	121.6	8.5	187273	8 AP005966	Homolog
15	120	8.4	134159	2 AP003625	Homolog
16	120	8.4	168253	AP003686	Homolog
17	118.8	8.3	139421	8 AC087545	Homolog
18	118.8	8.3	30029	8 AC017097	Homolog
19	118	8.2	158742	8 AC099042	Homolog

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb ov:\*

6: gb pat:\*

7: gb ph:\*

8: gb pl:\*

9: gb pr:\*

10: gb ro:\*

11: gb sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242729	ACCESSION
6	1079	8	2757	8 AF042275	VERSION
7	240	16.7	240	6 BD242735	KEYWORDS
8	184.6	12.9	598	8 AK102940	SOURCE
9	9	6	127952	8 OSJN0063	ORGANISM
10	137.8	9.6	156002	8 OSJN0050	Oryza sativa
11	127.4	8.9	126544	8 AP005106	Homolog
12	126	8.8	156649	8 AC14738	Homolog
13	121.6	8.5	95209	2 AP004323	Homolog
14	121.6	8.5	187273	8 AP005966	Homolog
15	120	8.4	134159	2 AP003625	Homolog
16	120	8.4	168253	AP003686	Homolog
17	118.8	8.3	139421	8 AC087545	Homolog
18	118.8	8.3	30029	8 AC017097	Homolog
19	118	8.2	158742	8 AC099042	Homolog

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb ov:\*

6: gb pat:\*

7: gb ph:\*

8: gb pl:\*

9: gb pr:\*

10: gb ro:\*

11: gb sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242729	ACCESSION
6	1079	8	2757	8 AF042275	VERSION
7	240	16.7	240	6 BD242735	KEYWORDS
8	184.6	12.9	598	8 AK102940	SOURCE
9	9	6	127952	8 OSJN0063	ORGANISM
10	137.8	9.6	156002	8 OSJN0050	Oryza sativa
11	127.4	8.9	126544	8 AP005106	Homolog
12	126	8.8	156649	8 AC14738	Homolog
13	121.6	8.5	95209	2 AP004323	Homolog
14	121.6	8.5	187273	8 AP005966	Homolog
15	120	8.4	134159	2 AP003625	Homolog
16	120	8.4	168253	AP003686	Homolog
17	118.8	8.3	139421	8 AC087545	Homolog
18	118.8	8.3	30029	8 AC017097	Homolog
19	118	8.2	158742	8 AC099042	Homolog

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb ov:\*

6: gb pat:\*

7: gb ph:\*

8: gb pl:\*

9: gb pr:\*

10: gb ro:\*

11: gb sts:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242729	ACCESSION
6	1079	8	2757	8 AF042275	VERSION
7	240	16.7	240	6 BD242735	KEYWORDS
8	184.6	12.9	598	8 AK102940	SOURCE
9	9	6	127952	8 OSJN0063	ORGANISM
10	137.8	9.6	156002	8 OSJN0050	Oryza sativa
11	127.4	8.9	126544	8 AP005106	Homolog
12	126	8.8	156649	8 AC14738	Homolog
13	121.6	8.5	95209	2 AP004323	Homolog
14	121.6	8.5	187273	8 AP005966	Homolog
15	120	8.4	134159	2 AP003625	Homolog
16	120	8.4	168253	AP003686	Homolog
17	118.8	8.3	139421	8 AC087545	Homolog
18	118.8	8.3	30029	8 AC017097	Homolog
19	118	8.2	158742	8 AC099042	Homolog

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

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12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242729	ACCESSION
6	1079	8	2757	8 AF042275	VERSION
7	240	16.7	240	6 BD242735	KEYWORDS
8	184.6	12.9	598	8 AK102940	SOURCE
9	9	6	127952	8 OSJN0063	ORGANISM
10	137.8	9.6	156002	8 OSJN0050	Oryza sativa
11	127.4	8.9	126544	8 AP005106	Homolog
12	126	8.8	156649	8 AC14738	Homolog
13	121.6	8.5	95209	2 AP004323	Homolog
14	121.6	8.5	187273	8 AP005966	Homolog
15	120	8.4	134159	2 AP003625	Homolog
16	120	8.4	168253	AP003686	Homolog
17	118.8	8.3	139421	8 AC087545	Homolog
18	118.8	8.3	30029	8 AC017097	Homolog
19	118	8.2	158742	8 AC099042	Homolog

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:\*

1: gb ba:\*

2: gb htg:\*

3: gb in:\*

4: gb om:\*

5: gb ov:\*

6: gb pat:\*

7: gb ph:\*

8: gb pl:\*

9: gb pr:\*

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12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1436	100.0	1436	6 BD242728	BD242728
2	1436	100.0	3003	6 BD242727	LOCUS
3	1303	90.7	145828	8 AP005392	DEFINITION
4	1303	90.7	154188	8 AP005633	DNA containing rice anther-specific gene and transgenic plants transformed thereby.
5	1196	83.3	1196	6 BD242	

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Db 1 CATTCAAGATCATCTCCAGCCCTACATGCTACTCTCCATATACTACAGTGTCTTG A 60	Db 1081 TAGCTTAATCTTACTTGACTTAGTGGACATTCGATCTCGGCCA 1140
Qy 61 TCCAATTTGTCCTACATAAACATTCCAGATAATCATCATTAATTCTG 120	Qy 1141 TCTCTATAATGGCTCTGCTACTTGACTTAGTGGACATTCGATCTCGGCCA 1200
Db 61 TCCAATTTGTCCTACATAAACATTCCAGATAATCATCATTAATTCTG 120	Db 1141 TCTCTATAATGGCTCTGCTACTTGACTTAGTGGACATTCGATCTCGGCCA 1200
Qy 121 CTAACTCAGATGCTTGAGGAAATACTAGCATTCAATGCAAAATTGATCAGTA 180	Qy 1201 AGTCTCTAGGGCAACGCCCTCATCTCTCTTCAGCTCTCCAGCTCCAGGGCTCCCTG 1260
Db 121 CTAACTCAGATGCTTGAGGAAATACTAGCATTCAATGCAAAATTGATCAGTA 180	Db 1201 AGTCTCTAGGGCAACGCCCTCATCTCTCTTCAGCTCTCCAGCTCCAGGGCTCCCTG 1260
Qy 181 AGTACTGAAAGAAATATTCGTTAACATTAGTAGTGTCTGTTAGTAACTAA 240	Qy 1261 CGCCATGCCATCGCCATGGCTCTCATGGTCACTGCACTTCAGTAACTTCTG 1320
Db 181 AGTACTGAAAGAAATATTCGTTAACATTAGTAGTGTCTGTTAGTAACTAA 240	Db 1261 CGCCATGCCATCGCCATGGCTCTCATGGTCACTGCACTTCAGTAACTTCTG 1320
Qy 241 AAATGTTTATTTAGTACAAATCGAGTGTAGCTAGTAGCTAGGTTAGATCG 300	Qy 1321 TGAAGCTATCATCTCATCTCATGCTGAGAGTTCAGTCACTTCAGTAACTTCTG 1380
Db 241 AAATGTTTATTTAGTACAAATCGAGTGTAGCTAGTAGCTAGGTTAGATCG 300	Db 1321 TGAAGCTATCATCTCATCTCATGCTGAGAGTTCAGTCACTTCAGTAACTTCTG 1380
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Qy 601 AAATTTGAAAGCAGCTGGAGAGCTGGTGGAGATCTGAAGAATTGAGTCT 660	AUTHORS
Db 601 AAATTTGAAAGCAGCTGGAGAGCTGGTGGAGATCTGAAGAATTGAGTCT 660	An, G., Jeon, J.-S., Chung, Y.-Y. and Lee, S.
Qy 661 ACCTTCATTCCTCGATTCACATTGATCTTAAATTAGTAAAGCTGGACT 720	TITLE
Db 661 ACCTTCATTCCTCGATTCACATTGATCTTAAATTAGTAAAGCTGGACT 720	DNA containing rice anther-specific gene and transgenic plants transformed thereby
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Db 721 GTTGGGACCTCTGTCACCGGGAGATTCTGAGAGCTGAGCTTC 780	Patent: JP 200228125-A 1 03-SEP-2002; SYNTHETIC PARTICIPATIONS AG
Qy 781 CAAACAGACCCCTAGTGTGACTCTAGTGTGATGTCATTCTTATACCTG 840	COMMENT
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genomic sequence was searched against NCBI NonRedundant Protein database, nr (<http://ncbi.nlm.nih.gov/blast/db>) and the cDNA sequence database at RGP or DBJ. Protein homologies of the coding regions were searched against NCBI NonRedundant Protein database with BLASTP. ESTs represent the identified cDNA sequences using BLASTN with the corresponding DBJ accession no. and RGP clone ID. Full-length cDNAs represent the identified cDNA sequences using BLASTN with the corresponding DBJ accession no. A gene with identity or significant homology to a protein is classified based on the protein name to indicate the homology level such as same name, 'putative-' and '-like protein'. A gene without significant homology to any protein but with full-length cDNA or EST homology (covering almost the entire length of partial sequence) is classified as an 'unknown' protein. A gene predicted by two or more gene prediction programs is classified as a 'hypothetical' protein according to IRGSP standard. A gene predicted by a single gene prediction program is also classified as a 'probable' hypothetical protein and is included as a 'miscellaneous' feature of the sequence. The orientation of the sequence is from SP6 to T7 of the PAC clone. This sequence of P0463G11 has an overlap with P0556A05 (DBJ: AP005759) clone at 5' end and with P0463D04 (DBJ: AP005392) clone at 3' end. Detailed information on overlap and assembly quality together with annotation of this entry is available at <http://rgp.dna.affrc.go.jp/GenomeSeq.html>.

## FEATURES

## source

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 REFERENCE 1 (bases 1 to 2757)  
 AUTHORS Jeon, J. S., Chung, Y. Y., Lee, S., Yi, G. H., Oh, B. G. and An, G.  
 TITLE Isolation and characterization of an anther-specific gene, RAB, from rice (Oryza sativa L.)  
 JOURNAL Plant Mol. Biol. 39 (1), 35-44 (1999)  
 MEDLINE 9918792  
 PUBMED 10080707  
 REFERENCE 2 (bases 1 to 2757)  
 AUTHORS Jeon, J. S., Chung, Y. Y., Lee, S. and An, G.  
 TITLE Direct Submission  
 JOURNAL Submitted (11-JAN-1998) Life Science, Pohang University of Science and Technology, Pohang 790-784, Republic of Korea  
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	db_xref="GI:24414170"					
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RESULT 15

AP003625/c

LOCUS AP003625 134159 bp DNA linear HTG 21-MAR-2002

DEFINITION Oryza sativa (japonica cultivar-group) chromosome 6 clone P0701F09, \*\*\* SEQUENCING IN PROGRESS \*\*\*.

ACCESSION AP003625

VERSION AP003625.1 GI:14020963

KEYWORDS HTG; RNCs PHASE2.

SOURCE Oryza sativa (japonica cultivar-group)

ORGANISM Oryza sativa (japonica cultivar-group)

ROKARYOTA; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Erihartoideae; Oryzeae; Oryza.

REFERENCE 1

AUTHORS Sasaki,T., Matsumoto,T. and Yamamoto,K.

TITLE Oryza sativa nipponbare (GA3) genomic DNA, chromosome 6, PAC

CLONE P0701F09

JOURNAL Published Only in Database (2001)

REFERENCE 2

AUTHORS Sasaki,T., Matsumoto,T. and Yamamoto,K.

TITLE Submitted [11-MAR-2001] Takuji Sasaki, National Institute of Agrobiological Resources, Rice Genome Research Program; Kannondai 2-1-2, Taikuba, Ibaraki 305-8502, Japan (E-mail:tsasaki@abr.afrc.go.jp/, Tel:81-298-38-7411, Fax:81-298-38-7468)

COMMENT NOTE: It currently consists of 1 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have provided by the submitter. This sequence will be replaced by the finished sequence as soon as it is available and the accession number will be preserved.

\* NOTE: This is a 'working draft' sequence.

\* This sequence will be replaced

\* by the finished sequence as soon as it is available and

\* the accession number will be preserved.

FEATURES Location/Qualifiers

1. .134159

Source /organism="Oryza sativa (japonica cultivar-group)" /mol\_type="Genomic DNA" /cultivar="Nipponbare" /db\_xref="taxon:39947" /chromosome="6" /clone="P0701F09"

ORIGIN

Query Match 8.4%; Score 120; DB 2; Length 134159;

Best Local Similarity 73.6%; Pred. No. 4.28-17; Mismatches 50; Indels 17; Gaps 2;

Matches 187; Conservative 0; Mismatches 50; Indels 17; Gaps 2;

QY 592 GGGAGCTTAAATATGAAAGCAGCTGTTGAGAGCTAGCTGAGATGAGAT 651

Db 57995 GGGAGCTTAAATATGAAAGCAGCTGTTGAGAGCTAGCTGAGATGAGAT 57936

QY 652 TTGA-----GTTCTAGCTTCTCCAGTTCAACATACAGATCT 696

Db 57935 CTGGAAAACCCAGCTCTGCTCTAGTCAATTTCAGATTCACATACAGATCTC 57876

QY 697 ATAAATTAGTTAAAGCTGAGCTGTT-GGGAGCTCTGTCAGCCGGAGATCTGTA 754

Db 57875 AGATCTGGTTAAAGCTGAGCTTCTGGGGAGCTCTGACACTGGAGATCTAGTA 57816

QY 755 GAAGCTGCACTGCTGAGACCTTCCCAAACAGACCCCTAGTGTACTCTAGCTGTA 814

Db 57815 GAAGCTGCACTGCTGAGACCTTCCCAAACAGACCCATATGACACCTACTCTCT 57756

QY 815 TTCACTATTTA 828

Db 57755 TGGCTGCACTAA 57742

Search completed: September 23, 2005, 18:23:22

Job time : 4320 secB

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QY	1261	CGCCATCGCCATGCCATCGCTCATGGTGCAGAGATATCCAGCATCTGAATTACT	1320	QY	121	CPRATCAGAT3CTGGGGAAAATTAAAGGATTCAATGCAAATGATCACTGA	180
Db	1261	CGCCATCGCCATGCCATCGCTCATGGTGCAGAGATATCCAGCATCTGAATTACT	1320	Db	121	CTPATCAGATGCTGGGGAAAATTAAAGGATTCAATGCAAATGATCACTGA	180
QY	1321	TGACGCATATCATCTCATCATCACTTGATGTTGAACTTCGATTTGTTCAAGAGATATTCCAGCATCTGAATTACT	1380	QY	181	ACTAACTGAAGAGAAATATCTGTTAACATTAGTGCTGTTAAACACTAA	240
Db	1321	TGACGCATATCATCTCATCATCACTTGATGTTGAACTTCGATTTGTTCAAGAGATATTCCAGCATCTGAATTACT	1380	Db	181	AGTAACCTGAAGAGAAATATCTGTTAACATTAGTGCTGTTAAACACTAA	240
QY	1381	GCTGATCAGTAAGGTGGGTGTTGAATTGGCTTATCAGGGTCAACCTGG	1436	QY	241	AATTTGTTATTTGTTACAACTGGATAGTAGCTGAGGAGGTGGCTAGTCG	300
Db	1381	GCTGATCAGTAAGGTGGGTGTTGAATTGGCTTATCAGGGTCAACCTGG	1436	Db	241	AATTTGTTATTTGTTACAACTGGATAGTAGCTGAGGAGGTGGCTAGTCG	300
<b>RESULT 3</b>							
AAA27335				QY	301	TGTTCCCATCACCTGAGAACCGTCAGGTGTTGTTGTCAGCGTCAAGCQATCAGAT	360
ID	AAA27335	standard; DNA; 1196 BP.		Db	301	TGTTCCCATCACCTGAGAACCGTCAGGTGTTGTTGTCAGCGTCAAGCQATCAGAT	360
XX				QY	361	TGCGAGTCGCCGCTCTTCTTCTGTAATCTGCACTGTCAGTCAGCCAGCAG	420
AC				Db	361	TGCGAGTCGCCGCTCTTCTTCTGTAATCTGCACTGTCAGTCAGCCAGCAG	420
XX				QY	421	ACGAAAGCAATGGCTGCAAGGAGTTGATCTTGTCGACTACTGCTACTGCG	480
DT	10-AUG-2000	(first entry)		Db	421	ACGAAAGCAATGGCTGCAAGGAGTTGATCTTGTCGACTACTGCTACTGCG	480
XX				QY	481	TTCGTTCATGTCGCTCACCCGCGGAAATGCGATGATCATGCC	540
DE		RICE RAB anther-specific gene promoter.		Db	481	TTCGTTCATGTCGCTCACCCGCGGAAATGCGATGATCATGCC	540
XX				QY	541	AAGATTATATCTCAATTTCCTATGCTCTAGTGTGTTGGACCTTA	600
KW		RAB; rice; anther-specific; self-pollination; antisense; transgene;		Db	541	AAGATTATATCTCAATTTCCTATGCTCTAGTGTGTTGGACCTTA	600
KW		transgenic plant; wheat; maize; orchardgrass; Sorghum bicolor;		QY	601	AAATTAGAAAGCAGSTGCTGAGAAGCTAGCTGGAGAATTGACTCT	660
XX		male-sterile plant; ds.		Db	601	AAATTAGAAAGCAGSTGCTGAGAAGCTAGCTGGAGAATTGACTCT	660
OS		Oryza sativa.		QY	661	ACCTTCATTCAGATCTCAATTTCCTATGCTCTAGTGTGTTGGACCTTA	720
PN				Db	661	ACCTTCATTCAGATCTCAATTTCCTATGCTCTAGTGTGTTGGACCTTA	720
XX				QY	721	GTGTTGGAGCTCTGTCGCGGAGATCTGTCAGAGCTGCTGAGCTGCTCC	780
PD	11-MAY-2000.			Db	721	GTGTTGGAGCTCTGTCGCGGAGATCTGTCAGAGCTGCTGAGCTGCTCC	780
XX				QY	781	CAACACGACCCCTAGTTGACTCTAGTGATGATCACTCTATTATACCTGC	840
PA	02-NOV-1999;	99W0-EP008360.		Db	781	CAACACGACCCCTAGTTGACTCTAGTGATGATCACTCTATTATACCTGC	840
PA		(INOV) NOVARTIS AG.		Db	840	TCTCTAGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	900
XX				QY	841	TCTCTAGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	900
PR	03-NOV-1998;	98KR-00046973.		Db	841	TCTCTAGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	900
XX		98KR-00050126.		QY	901	TCTTTTATGTTGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	960
PA				Db	901	TCTTTTATGTTGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	960
XX				QY	961	TCTTTTATGTTGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	1020
PI	An, G., Jeon, J., Chung, Y., Lee, S;			Db	961	TCTTTTATGTTGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	1020
DR				QY	961	TCTTTTATGTTGTTTCAAGCTAGCCAGCTGAAATTAAAGCTGACT	1020
XX				Db	1021	CCTTATAATTAAATTTCAGGGAGTAACCTAGTGTTGTTAACTCTGG	1080
WPI;	2000-365632/31.			Db	1021	CCTTATAATTAAATTTCAGGGAGTAACCTAGTGTTGTTAACTCTGG	1080
PS		Novel promoters of anther-specific transcription used to create		QY	1080	CTCTTAAATTAAATTTCAGGGAGTAACCTAGTGTTGTTAACTCTGG	1080
XX		transgenic male-sterile plants.		Db	1080	CTCTTAAATTAAATTTCAGGGAGTAACCTAGTGTTGTTAACTCTGG	1080
QY	Claim 9; Page 29; 32pp; English.			QY	1081	TATGCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1140
CC		The present sequence is the gene promoter for the rice RAB protein. This		Db	1081	TATGCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1140
CC		protein is expressed in an anther-specific manner in the plant, where it		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
CC		acts in the development of the structure. The gene can be used to create		Db	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
CC		transgenic plants which do not possess a properly formed anther, and thus		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
CC		are male-sterile. This is useful as it prevents self-pollination, which		Db	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
CC		will then aid breeding and hybrid seed production. In addition to rice,		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
CC		this process can also be used in wheat, maize, orchardgrass and Sorghum		Db	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
XX		bicolor		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
SQ	Sequence 1196 BP; 336 A; 242 C; 224 G; 394 T; 0 U; 0 Other;			QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
Query	Match	83.3%; Score 1196; DB 3; Length 1196;		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
Best Local Similarity	100.0%	Score 1196; DB 3; Length 1196;		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
Matches	1196;	Conservative 0; Mismatches 0; Indels 0; Gaps 0;		QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
Db				QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
QY	1	CATTCAGAACTCATCTCCAGCTTCAATGTTGACTCTCTCCATACTG	60	QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
Db	1	CATTCAGAACTCATCTCCAGCTTCAATGTTGACTCTCTCCATACTG	60	QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
QY	61	TTCGAATTTGCTTACATAACATTCAGCATGAACTCATACATTAATTTCAG	120	QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196
Db	61	TTCGAATTTGCTTACATAACATTCAGCATGAACTCATACATTAATTTCAG	120	QY	1141	TCTCTTAACTCTTACTTGACTTGAGCTTGTGCGGATTTTCACTG	1196



Db	1	GCAAAAGTCCTCAAGCGAACGCCCTCCATCTCTCCAGTCGCCCC 60	Qy	756	AACTGAGCTCTAGAGCTTCCCAAACAGACCCCT 793
Qy	1257	TCGTGCACTCGCCATCGCCATGAGCTCTGAGG 1291	Db	1166	AAGATGCACTGCTAAACTCTTTAATAGTCCT 1903
Db	61	TGGTGGCATGGCATGCGCTCTCATGG 95			
<b>RESULT 6</b>					
ADA71441	ID	ADA71441 standard; DNA; 2000 BP.	XX	XX	XX
XX	AC	ADA71441;	XX	AC	ADJ41616;
DT	20-NOV-2003	(first entry)	XX	DT	ADJ41616
XX	Rice gene, SEQ ID 4764.		XX	XX	06-MAY-2004 (first entry)
XX	Plant; bacterial infection; fungal infection; viral infection; rice; gene; db; Oryza sativa.		XX	XX	Plant CDNA #2615.
XX	PN	W02003000898-A1.	OS	OS	Eukaryota.
XX	PD	03-JAN-2003.	XX	PN	US2004016025-A1.
XX	PF	22-JUN-2001; 2001WO-IB001105.	XX	PD	22-JAN-2004.
XX	PR	22-JUN-2001; 2001WO-IB001105.	XX	PR	26-SEP-2002; 2002US-00260238.
PA	(SYGN ) SYNGENTA PARTICIPATIONS AG.		XX	PR	26-SEP-2001; 2001US-0325277P.
XX	PI	Chang H, Chen W, Cooper B, Glazebrook J, Goff S, Hou Y, Katagiri F, Quan S, Tao Y, Whitham S, Xie Z, Zhu T, Zou G; DR	PA	PR	26-SEP-2001; 2001US-0325448P.
XX	PT	Identifying at least one gene involved in plant resistance or response to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.	PA	PR	04-APR-2002; 2002US-0370620P.
XX	PT	WPI; 2003-17529/017.	PA	PA	(BUDW/) BUDWORTH P.
XX	PS	Claim 27; SEQ ID NO 4764; 899pp; English.	PA	PA	(MOUGH/) MOUGHAMER T.
XX	CC	The present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to expression of the gene in an uninfected plant, in a mutant plant that does not express a gene associated with response to pathogenic infection, or in a corresponding incompatible or compatible interaction. (M1) is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.	PA	PA	(BRIG/) BRIGGS S P.
XX	CC	Sequence 2000 BP; 630 A; 343 C; 386 G; 640 T; 0 U; 1 Other;	PA	PA	(COOP/) COOPER B.
XX	CC	Query Match 6.3%; Score 90.4%; DB 8; Length 2000; Best Local Similarity 71.1%; Conservative 0; Mismatches 46; Indels 17; Gaps 2; Matches 155; Conservative 0; Pred. No. 3.8e-12;	PA	PA	(GLAZ/) GLAZEBROOK J.
Qy	593	GGAGCTTAAATTGAAAGCAGCTGCTGAGAGCTACCTGGTAGAGATT 652	PA	PA	(GOFF/) GOFF S A.
Db	1686	GGACCTTAAGATCTGAGAGCACTGCTAGAGCTAGCTGGTAGAGAAC 1745	PA	PA	(KATA/) KATAGIRI F.
Qy	653	TGAGTTCTAC-----GTCATTCCTCAGATCTACAATTACAGATCTA 697	PA	PA	(KREP/) KREPS J.
Db	1746	TGGAAACCAAGCTCTGCTCTCTAGTCATCTTCAGATCTACATCTA 1805	PA	PA	(PROV/) PROVART N.
Qy	698	TAATTAGCTAAAGCTGACTCTTGG---GACCTCTGCTAGCCGGAGATCTGAG 755	PA	PA	(RICK/) RICKE D.
Db	1806	GAATCTTGGTAAAGATGCGCTTAGGGAGACTTGTAGTAGAGATTAGAG 1865	XX	XX	(ZHUT/) ZHU T.
XX	PI	Budworth P, Moughamer T, Briggs SP, Cooper B, Glazebrook J, Goff S, Katagiri F, Krops J, Provert N, Rieke D, Zhu T; DR	XX	XX	Budworth P, Moughamer T, Briggs SP, Cooper B, Glazebrook J, Goff S, Katagiri F, Krops J, Provert N, Rieke D, Zhu T; DR
XX	WPI	WPI; 2004-190374/18.	XX	XX	WPI; 2004-190374/18.
XX	PT	New rice promoter, useful for manipulating crop plants to alter or improve phenotypic characteristics, e.g. produce large quantities of oil or proteins, resistance to insecticides, virus or fungi, stress tolerance or high nutritional value.	PT	PT	New rice promoter, useful for manipulating crop plants to alter or improve phenotypic characteristics, e.g. produce large quantities of oil or proteins, resistance to insecticides, virus or fungi, stress tolerance or high nutritional value.
XX	PS	Claim 1; SEQ ID NO 2616; 230pp; English.	XX	XX	Claim 1; SEQ ID NO 2616; 230pp; English.
CC	The invention relates to plant nucleotide sequences that direct seed-, leaf- and/or stem-, panicle-, root- or pollen-specific or -preferential or constitutive transcription of an operatively linked nucleic acid segment. The invention also relates to a method for augmenting a plant genome and a method of identifying a gene, where its expression is altered in the seed, leaf, stem, panicle, pollen, root or is constitutive in a plant cell. The plant is a cereal, e.g. soybean, alfalfa, sunflower, canola, cotton, peanut, tobacco or sugar beet; preferably maize, barley, sorghum, rice or wheat. The polynucleotides and the polypeptides they encode are useful for manipulating crop plants to alter or improve phenotypic characteristics, to produce large quantities of oil or proteins, to incur resistance to insecticides, viruses or fungi, and to incur stress tolerance (e.g. salt, cold or drought) to ensure the plants have a high nutritional value with reduced apical dominance or dwarfism,	CC	CC	CC	CC

early flowering or altered metabolic pathways. This sequence represents a plant nucleic acid of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at [seqdata.uspto.gov/sequence.html](http://seqdata.uspto.gov/sequence.html).

Query Match 6.3%; Score 90.4%; DB 12; Length 2000;  
 Best Local Similarity 71.1%; Pred. No. 3 8e-12;  
 Matches 155; Conservative 0; Mismatches 46; Indels 17; Gaps 2

CC CO39(t) nucleic acids may be used as probes to detect the presence of  
 CC and/or expression of Pi-CO39(t) genes, and to produce large quantities of  
 CC pure Pi-CO39(t) proteins. Purified gene products of Pi-CO39(t) are useful  
 CC in producing polyclonal or monoclonal antibodies useful as sensitive  
 CC detection reagents for the screen and accumulation of lines of Pi-CO39(t)  
 CC polypeptides. The transgenic plants are useful for plant breeding or  
 CC directly in agricultural or horticultural applications. The present  
 CC sequence is rice RG8 contig 30N10p DNA. This sequence comprises  
 CC portion of BAC clone 82N20 from Nipponbare, containing RG8 sequence and  
 CC ORP NBR7

RESULT 8  
AAD38802  
AAD38802 standard; DNA; 17953 BP.

RESULT 9	Db	17204	AGAATGTTAGACTTATGAGG-----AGCTGAAATCTAAAGAACTGCAAATC	17254
Qy		769	TAGAAGCTTCCCCAAAGACCCCTAGT	796
Db		17255	TAGAACTCTACTCAAACAGGGCTTATG	17282

Rice RGAs contig.3ONippon DNA.

X  
S *Oryza sativa.*

WO200234927-A2.

02-MAY-2002.

20-OCT-2000; 2000US-0242313P.

USDA ) US DEPT OF AGRICULTURE.

WPI; 2002-471442/50.

New PICO39(t) polymers from chromosome 11 of Indica rice cultivar CO39 useful for conferring or improving resistance of plants to strains

CL Magnaporthe grisea or other plant pathogen CO39.

Example 2; Page 59-68; 175pp; English.

The invention relates to a polynucleotide isolated from chromosome 11 of Indica rice cultivar CO39, flanked by marker B2316 and RGL094 comprising one or more genes that confer resistance to strains of *Magnaporthe grisea* having avirulence gene AVR1-CO39. The PI-CO39(t) polynucleotides are useful for conferring or improving resistance of plants to strains of the rice blast pathogen *Magnaporthe grisea* and other pathogens. The PI-

comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to expression of the gene in an uninfected plant, in a mutant plant that does not express a gene associated with response to pathogenic infection, or in a corresponding incompatible or compatible interaction. (M1) is useful for conferring resistance to resistance or tolerance to a plant to or in a corresponding incompatible or compatible interaction. (M1) is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.

Sequence 2000 BP; 497 A; 452 C; 457 G; 594 T; 0 U; 0 Other; SQ

Query Match 4.9%; Score 71; DB 8; Length 2000; Best Local Similarity 66.4%; Pred. No. 2.8e-07; Matches 144; Conservative 0; Mismatches 50; Indels 23; Gaps 2;

QY 589 TTGGGACCTTAAATTATGAAAGCAGCTGTGAGAGCTACGTGGTGGAGATCTGAG 648

Db 859 TTGGGAGGTTGAGTTAGGTTAGGAGCAGTAGGTTGGTGGAGCTGGCCACCTCTGAGA 800

QY 649 AATTGGAGTCTTACG-----TTCACTCTCAGATTCTACATTACAGTT 693

Db 799 AAGTTAGATTCCCACTATGGCTCTATTCTATTTCTAGATTCTACACTACAGTT 740

QY 694 CTAAATATTAGGTTAAAGCTGAGCTGTTGGAGCTCTGTCAGCGGGAGTTCTG 753

Db 739 CTAGAACTTACGACCAAAAGCTGAGCTGTTAGGAGATTCT-----AATTCAGG 688

QY 754 AGAAGCTGAGCTCTAGAGCTTCCCACAGACC 790

Db 687 AGAAGCTGCTGAGCTTACGACCTCCCACTACAGCC 651

RESULT 10

AD72600; C ID ADA72600 standard; DNA; 2000 BP.

XX AC ADR72600; DT 20-NOV-2003 (first entry)

DB DE Rice gene, SEQ ID 5925.

XX KW Plant; bacterial infection; fungal infection; viral infection; rice; gene; ds.

XX OS Oryza sativa.

XX PN WO2003000898-A1.

XX PD 03-JAN-2003.

XX PF 22-JUN-2001; 2001WO-IB001105.

XX PR 22-JUN-2001; 2001WO-IB001105.

XX DR 2003-175290/17.

PA (SYGN ) SYNGENTA PARTICIPATIONS AG.

XX PT Chang H, Chen W, Cooper B, Glazebrook J, Goff SA, Hou Y; PI Katagiri F, Quan S, Tao Y, Whitham S, Xie Z, Zhu T, Zou G; XX DR WPI; 2003-175290/17.

XX PS Claim 27; SEQ ID NO 4859; 899pp; English.

PT Identifying at least one gene involved in plant resistance or response to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.

XX PS Claim 27; SEQ ID NO 5925; 899pp; English.

PT The present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.

XX PS Claim 27; SEQ ID NO 4859; 899pp; English.

PT The Present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.

XX PS Claim 27; SEQ ID NO 5925; 899pp; English.

PT The present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.

CC expression of the gene in an uninfected plant, in a mutant plant that does not express a gene associated with response to pathogenic infection, or in a corresponding incompatible or compatible interaction. (M1) is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.

XX Sequence 2000 BP; 617 A; 367 C; 428 G; 586 T; 0 U; 2 Other; SQ

Query Match 4.8%; Score 69.2; DB 8; Length 2000; Best Local Similarity 76.6%; Pred. No. 7.9e-07; Matches 98; Conservative 0; Mismatches 28; Indels 2; Gaps 1;

QY 664 TTCACTCCAGATCTACATACAGCTTATATTAGTAAAGCTGGACTGTT 723

Db 985 TTATTTCTGATTCTACACTACAGCTTCTGAGATCTGGTAAATAACTGTT 926

QY 724 T---GGGAGCTTGTGAGCCGGAGATTGTGAGAAGACTGCGCTCTAGAAGCTCCCC 781

Db 925 TGAGGGGTCTTAGCAGCTGGAGATCTACAGGAGCTGAGCTGGCC 866

Qy 782 AAACAGAC 789

Db 865 AAATAGAC 858

RESULT 11

ID ADA71336 standard; DNA; 2000 BP.

XX AC ADA71336; DT 20-NOV-2003 (first entry)

DE DE Rice gene, SEQ ID 4859.

XX KW Plant; bacterial infection; fungal infection; viral infection; rice; gene; ds.

XX OS Oryza sativa.

XX PN WO2003000898-A1.

XX PD 03-JAN-2003.

XX PF 22-JUN-2001; 2001WO-IB001105.

XX PR 22-JUN-2001; 2001WO-IB001105.

XX DR 2003-175290/17.

PA (SYGN ) SYNGENTA PARTICIPATIONS AG.

XX PT Chang H, Chen W, Cooper B, Glazebrook J, Goff SA, Hou Y; PI Katagiri F, Quan S, Tao Y, Whitham S, Xie Z, Zhu T, Zou G; XX DR WPI; 2003-175290/17.

XX PT Identifying at least one gene involved in plant resistance or response to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.

XX PS Claim 27; SEQ ID NO 4859; 899pp; English.

PT The Present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.

XX PS Claim 27; SEQ ID NO 5925; 899pp; English.

PT The present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.



PS Claim 33; SEQ ID NO 1892; 230pp; English

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CC The invention relates to plant nucleotide sequences that direct seed-,  
CC leaf- and/or stem-, panicle-, root- or pollen-specific or -preferential  
CC or constitutive transcription of an operatively linked nucleic acid  
CC segment. The invention also relates to a method for augmenting a plant  
CC genome and a method of identifying a gene, where its expression is  
CC altered in the seed, leaf, stem, panicle, pollen, root or is constitutive  
CC in a plant cell. The plant is a cereal, e.g. soybean, alfalfa, sunflower,  
CC canola, cotton, peanut, tobacco or sugar beet, preferably maize, barley,  
CC sorghum, rice or wheat. The polynucleotides and the polypeptides they  
CC encode are useful for manipulating crop plants to alter or improve  
CC phenotypic characteristics, to produce large quantities of oil or  
CC proteins, to incur resistance to insecticides, viruses or fungi, and to  
CC incur stress tolerance (e.g. salt, oil or drought) to ensure the plants  
CC have a high nutritional value with reduced apical dominance or dwarfism,  
CC early flowering or altered metabolic pathways. This sequence represents a  
CC plant nucleic acid of the invention. Note: The sequence data for this  
CC patent did not form part of the printed specification but was obtained in  
CC electronic format directly from USPTO at seqdata.uspto.gov/sequence.html.

Query Match 4.1%; Score 58.8; DB 12; Length 2000;  
 Best Local Similarity 66.5%; Prod No. 000132.

Matches 141; Conservative 0; Mismatches 47; Indels 24; Gaps 3

DR WPI : 2002-471442/50.

PT New PiCO39(t) polynucleotides from chromosome 11 of Indica rice cultivar  
PT CO39 useful for conferring or improving resistance of plants to strains  
PT of Magnaporthe grisea or other plant pathogens with avirulence gene AVR1-  
CO39.

XX

PS Claim 6; Page 143-148; 175pp; English.

XX

CC The invention relates to a polynucleotide isolated from chromosome 11 of  
CC Indica rice cultivar CO39, flanked by marker R2316 and RG1094 comprising  
CC one or more genes that confer resistance to strains of Magnaporthe grisea  
CC having avirulence gene AVR1-CO39. The Pi-CO39(t) polynucleotides are  
CC useful for conferring or improving resistance of plants to strains of the  
CC rice blast pathogen, Magnaporthe grisea and other pathogens. The Pi-  
CO39(t) nucleic acids may be used as probes to detect the presence of  
CC and/or expression of Pi-CO39(t) genes, and to produce large quantities of  
CC pure Pi-CO39(t) proteins. Purified gene products of Pi-CO39(t) are useful  
CC in producing polyclonal or monoclonal antibodies useful as sensitive  
CC detection reagents for the presence and accumulation of Pi-CO39(t)  
CC polypeptides. The transgenic plants are useful for plant breeding or  
CC directly in agricultural or horticultural applications. The present  
CC sequence is CDDR1 ORF from rice variety CO39.

XX

SQ Sequence 11460 BP; 3238 A; 2381 C; 2138 G; 3703 T; 0 U; 0 Other;

Best Local Similarity 4.0%; Score 57.6; DB 6; Length 11460;

Matches 109; Conservative 0; Mismatches 56; Indels 8; Gaps 1; Overall GC content 60.7

RESULT 15  
ADD8804

ID AAD38804 standard; DNA; 69300 BP  
XX

AC AAD38804;  
XX  
DT 23-SEP-2002 (First entry)

XX BAC clone E2P5 from rice variety CO39  
DB YY

Rice; chromosome 11; Indica rice cultivar; CO39; avirulence gene AVR1-CO39; rice blast pathogen; transgenic plant; Plant breeding KW

KW resistance; agricultural; horticultural; plant protectant; ds. OS Orvza sativa.

XX  
PN  
W0200234927-A2

XX  
PD  
XX  
02-MAY-2002.

PF 19-OCT-2001; 2001WO-US046331  
XX  
PP 30-OCT-2000; 2000WO-US043313P

EX 49-0001-2000, 200000-021251.  
PR 09-JUL-2001, 2001US-0303897P.  
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(WISC ) WISCONSIN ALUMNI RES FOUND.  
(USDA ) US DEPT OF AGRICULTURE.  
XX

XX  
DR  
WPI; 2002-471442/50.

XX  
PT New PiC039(t) polynucleotides from chromosome 11 of Indica rice cultivar C039 useful for conferring or improving resistance of plants to strains of Magnaporthe grisea or other plant pathogens with avirulence gene AVR1-C039.

XX  
PS Example 4; Page 110-142; 175pp; English.

CC The invention relates to a polynucleotide isolated from chromosome 11 of Indica rice cultivar C039, flanked by marker R2316 and RCI094 comprising one or more genes that confer resistance to strains of Magnaporthe grisea having avirulence gene AVR1-C039. The Pi-C039(t) polynucleotides are useful for conferring or improving resistance of plants to strains of the rice blast pathogen, Magnaporthe grisea and other pathogens. The Pi-C039(t) nucleic acids may be used as probes to detect the presence of and/or expression of Pi-C039(t) genes, and to produce large quantities of pure Pi-C039(t) proteins. Purified gene products of Pi-C039(t) are useful in producing polyclonal or monoclonal antibodies useful as sensitive detection reagents for the presence and accumulation of Pi-C039(t) polypeptides. The transgenic plants are useful for plant breeding or directly in agricultural or horticultural applications. The present sequence is BAC clone R2P5 from rice variety C039

XX Sequence 69300 BP; 19720 A; 15094 C; 15006 G; 19380 T; 0 U; 100 Other;

Query Match 4.0%; Score 57.6; DB 6; Length 69300;

Best Local Similarity 63.0%; Pred. No. 0.0026; Matches 109; Conservative 0; Mismatches 56; Indels 8; Gaps 1;

Matches 109; Conservative 0; Mismatches 56; Indels 8; Gaps 1;

QY 638 AGAATCTGAGAATTGAGTTCTACGTTCAATTCTCCAGATCTACATTCAGATCTTA 697  
Db 12015 AGCTTCAGCTCTGGCTCTGAGCTCTAGTCATTTCAAGATCTGTAATCTAGATCTCA 12074

QY 698 TAATTAGGTTAAAGGCTGCACTGTTGAGCTCTGAGCTCTGAGCCAGATCTGAGA 757  
Db 12075 GAAGCTGTGACTG-----TTGGGGTACGCTCTAGAGAAGCAGCTTGGAAA 12126

QY 758 GCTGGAGCTCTAGAGCTTCCCAACAGGACCCCTAGTTGACTCTAGGTGA 810  
Db 12127 GTTACAGCTGGACAGCTCCCAACAGGACCTAAGTACACAGTGGCTCA 12179

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Job time : 583 sec<sub>B</sub>

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